



Final Report

STATEWIDE PRICING PILOT

SUMMER 2003 IMPACT ANALYSIS

APPENDICES

PREPARED BY

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Date: August 9, 2004 (Published October 11, 2004)

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Appendix 1

Sample Tariff, Sample Bill Insert, and Sample Shadow Bill

The sample tariff is for the PG&E CPP-F rate. The sample bill insert is for the SDGE residential CPP-F high Summer rate. The sample shadow bill is for the SDG&E CPP-F rate.



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE

APPLICABILITY: This schedule is applicable to residential bundled service customers who have been selected by PG&E to participate in the Statewide Pricing Pilot (SPP) as directed by the California Public Utilities Commission (CPUC) in Decision 03-03-036. Customers have the option to decline to participate and return to their applicable tariff schedule. This is an experimental schedule and shall remain in effect until December 31, 2004 or until cancelled by the CPUC.

(N)

The experimental rates applicable under this schedule have been designed to test customer response to different prices than are applicable under PG&E's standard residential tariff, Schedule E-1. The SPP is constructed as a statistical experiment, with an experimental design with sample groups of customers paying different types of experimental time-of-use prices. PG&E will randomly assign selected customers to either Rate A or Rate B of this schedule. Depending on how customers use their energy, their bills under this rate schedule may be higher or lower than the bills they would have had under Schedule E-1. Customers who remain in the SPP and on this rate for specified time periods will be eligible to receive a Participation Appreciation Payment, as described under Special Condition 2.

A customer taking service under this schedule may be eligible for a 20 percent California Alternative Rates for Energy (CARE) discount on their bill, if all terms and conditions of PG&E's low income residential tariff are met.

TERRITORY: PG&E's entire service territory.

(N)

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

RATES: RATE A

	Trans- mission	Distribu- tion	Public Purpose Programs	Genera- tion	Nuclear Decom- missioning	DWR Bond	FTA	Reliability Services	Total Rate
1. ENERGY CHARGE: (\$ per kWh per SUMMER Month)									
Super Peak	0.00503	0.05267	0.00432	0.65734(R)	0.00048	0.00513(N)	0.00969	0.00355	0.73821
Peak	0.00503	0.05267	0.00432	0.16464(R)	0.00048	0.00513(N)	0.00969	0.00355	0.24551
Off-Peak	0.00503	0.05267	0.00432	(0.00266)(R)	0.00048	0.00513(N)	0.00969	0.00355	0.07821
Baseline Credit, deduction per kWh of baseline use	—	0.01732	—	—	—	—	—	—	0.01732
ENERGY CHARGE: (\$ per kWh per WINTER Month)									
Super Peak	0.00503	0.05267	0.00432	0.47465	0.00048	0.00513(N)	0.00969	0.00355	0.55552
Peak	0.00503	0.05267	0.00432	0.25465	0.00048	0.00513(N)	0.00969	0.00355	0.33552
Off-Peak	0.00503	0.05267	0.00432	0.02465	0.00048	0.00513(N)	0.00969	0.00355	0.10552
Baseline Credit, deduction per kWh of baseline use	—	0.01732	—	—	—	—	—	—	0.01732
MINIMUM ENERGY CHARGE: (\$/Meter/Day)	0.00756	0.12009	0.00188	0.03205	0.00021			0.00248	0.16427
TRANSMISSION REVENUE BALANCING ACCOUNT ADJUSTMENT RATE: (per kWh per Month)									
	(0.00230)	—	—	0.00230	—	—	—	—	0.00000
2. ENERGY PROCUREMENT SURCHARGE: (per kWh, applies to all usage)									
	—	—	—	0.01000	—	—	—	—	0.01000
3. ADDITIONAL ENERGY PROCUREMENT SURCHARGES: (per kWh, usage in specified tiers)									
Tier 3—131%-200% of baseline	—	—	—	0.05124	—	—	—	—	0.05124
Tier 4—201%-300% of baseline	—	—	—	0.09517	—	—	—	—	0.09517
Tier 5—over 300% of baseline	—	—	—	0.11505	—	—	—	—	0.11505

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

RATES:

RATE B

	Trans- mission	Distribu- tion	Public Purpose Programs	Genera- tion	Nuclear Decom- missioning	DWR Bond	FTA	Reliability Services	Total Rate	
1. ENERGY CHARGE:										
(\$ per kWh per SUMMER Month)										
Super Peak	0.00503	0.05267	0.00432	0.46634(R)	0.00048	0.00513(N)	0.00969	0.00355	0.54721	(T)
Peak	0.00503	0.05267	0.00432	0.14634(R)	0.00048	0.00513(N)	0.00969	0.00355	0.22721	
Off-Peak	0.00503	0.05267	0.00432	0.03634(R)	0.00048	0.00513(N)	0.00969	0.00355	0.11721	
Baseline Credit, deduction per kWh of baseline use	—	0.01732	—	—	—	—	—	—	0.01732	
ENERGY CHARGE:										
(\$ per kWh per WINTER Month)										
Super Peak	0.00503	0.05267	0.00432	0.65065(R)	0.00048	0.00513(N)	0.00969	0.00355	0.73152	(T)
Peak	0.00503	0.05267	0.00432	0.04065(R)	0.00048	0.00513(N)	0.00969	0.00355	0.12152	
Off-Peak	0.00503	0.05267	0.00432	0.03565(R)	0.00048	0.00513(N)	0.00969	0.00355	0.11652	
Baseline Credit, deduction per kWh of baseline use	—	0.01732	—	—	—	—	—	—	0.01732	
MINIMUM ENERGY CHARGE:										
(\$/Meter/Day)	0.00756	0.12009	0.00188	0.03205	0.00021			0.00248	0.16427	
TRANSMISSION REVENUE BALANCING ACCOUNT ADJUSTMENT RATE:										
(per kWh per Month)	(0.00230)	—	—	0.00230	—	—	—	—	0.00000	
2. ENERGY PROCUREMENT SURCHARGE:										
(per kWh, applies to all usage)	—	—	—	0.01000	—	—	—	—	0.01000	
3. ADDITIONAL ENERGY PROCUREMENT SURCHARGES:										
(per kWh, usage in specified tiers)										
Tier 3—131%-200% of baseline	—	—	—	0.05124	—	—	—	—	0.05124	
Tier 4—201%-300% of baseline	—	—	—	0.09517	—	—	—	—	0.09517	
Tier 5—over 300% of baseline	—	—	—	0.11505	—	—	—	—	0.11505	

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

RATES: 4. RATE APPLICABILITY

Generation is calculated residually based on the total rate less the sum of the following: Transmission, Distribution, Public Purpose Programs, Nuclear Decommissioning, Department of Water Resources Bond ("DWR Bond"), FTA, and Reliability Services.

Energy Procurement Surcharges are calculated as specified in Schedule E-EPS. They provide an increase in revenues, subject to refund or adjustment, for the purpose of improving utility recovery of the costs of procuring future energy costs in the wholesale market. This energy procurement surcharge applies everywhere PG&E provides electric service. The \$0.01 per kWh Energy Procurement Surcharge is charged to all electric service customers (including direct access customers), except customers taking service on the California Alternative Rates for Energy (CARE) program, and customers taking service on Schedule E-DEPART. The Additional Energy Procurement Surcharge is charged to all bundled service customers, except customers taking service on the California Alternative Rates for Energy (CARE) program or who receive a medical baseline allowance.

Where the minimum charge applies with no usage, the generation charge is calculated residually based on the total minimum charge less the sum of: Transmission, Distribution, Public Purpose Programs, Nuclear Decommissioning, and Reliability Services. Where the minimum charge applies with usage, the total charge will be equal to the total minimum charge above, plus the Energy Procurement Surcharges in Schedule E-EPS. The generation charge for bills with usage is calculated residually based on the total charge less the sum of the following charges: Transmission, Distribution, Public Purpose Programs, Nuclear Decommissioning, DWR Bond, FTA, and Reliability Services.

TIME PERIODS:	Super Peak	As defined below	(T)
	Peak	All hours between 2 p.m. and 7 p.m. Weekdays	
	Off-Peak	All other Weekday hours plus Weekends and Holidays	

SUPER PEAK PERIODS:	Super Peak shall be all hours between 2 p.m. and 7 p.m. for no more than fifteen (15) days per calendar year and no more than three (3) consecutive days. Up to twelve (12) Critical-Peak pricing periods will be scheduled during the summer billing season, and up to three (3) during the winter billing season. Each customer shall be notified that the Super Peak is effective, by 5:00 p.m. the day prior to implementation of the Super Peak day.	(T)
		(T)

The Super Peak period shall be triggered by one or more of the following:

- a. ISO emergencies, as defined as a stage 1 event or higher;
- b. Extreme or unusual temperature conditions impacting system demand;
- c. PG&E procurement requirements; and/or
- d. PG&E discretionary events for test purposes, program evaluation or system contingencies.

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

HOLIDAYS:	"Holidays" for the purposes of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.	(N)
SEASONS:	The summer season is May 1 through October 31 and the winter season is November 1 through April 30. Bills that include May 1 and November 1 seasonal changeover dates will be calculated by multiplying the applicable daily baseline quantity and rates for each season by the number of days in each season for the billing period.	
NOTIFICATION OF A CPP EVENT:	<p>If a CPP event occurs, PG&E will notify all customers via a dedicated phone line. If the customer elects, PG&E will also notify the customer via an alphanumeric pager that is capable of receiving a text message sent via the Internet, e-mail, or fax.</p> <p>Receipt of such notice is the responsibility of the participating customer. PG&E does not guarantee the reliability of the pager system, e-mail system, Internet site, or fax by which the customer may receive a notification.</p>	<p></p> <p>(N)</p>

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

SPECIAL
CONDITIONS:

1. TERMS OF SERVICE: Customer meeting the SPP program criteria shall be randomly selected by PG&E to receive service under this schedule and participate in the SPP. A customer may elect to change to another applicable rate.
2. PARTICIPATION APPRECIATION PAYMENT: A customer Participation Appreciation Payment of \$25 will be paid to each participant upon successful completion of the program enrollment process, including provision of necessary demographic survey information. Those customers who continuously remain on their assigned pilot tariff through October 31, 2003, will receive an additional Participation Appreciation Payment of \$75, and those who continue to participate through April 30, 2004 will receive a further additional Participation Appreciation Payment of \$75.
3. LIMITATION ON AVAILABILITY: Service under this schedule is restricted to customers randomly selected by PG&E, as specified by the CPUC in Decision 03-03-036. This schedule shall be available subject to metering availability and communications signal strength. Customer must have telephone service.
4. INFORMATION TREATMENTS: Customer shall receive information regarding the SPP, as well as energy cost management information. Customer shall be requested to provide demographic information for the purposes of the SPP by filling out a survey. The survey information may include, but will not be limited to questions about number of members in the household, income, end-uses, dwelling size, and age of dwelling. Customer may receive energy usage and cost information throughout the duration of the SPP. This information may be provided via multiple channels including, but not limited to: PG&E bill inserts, printed literature, fax, e-mail, pager, radio and/or web based content accessed via the Internet.
5. METERING: PG&E will supply, own, and maintain all necessary meters and associated equipment utilized for billings. In addition, and for purposes of monitoring customer load, PG&E may install, at its expense, load research metering. The customer shall supply, at no expense to PG&E, a suitable location for meters and associated equipment used for billing and load research.
6. BASELINE RATES: Baseline rates are applicable only to separately metered residential use. PG&E may require the customer to file with it a Declaration of Eligibility for Baseline Quantities for Residential Rates.

(N)

(N)

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

7. BASELINE (TIER 1) QUANTITIES: The following quantities of electricity are to be billed at the rates for baseline use (also see Rule 19 for additional allowances for medical needs):

(N)

Baseline Territory*	BASELINE QUANTITIES (kWh PER DAY)			
	Code B – Basic Quantities		Code H – All-Electric Quantities	
	Summer	Winter	Summer	Winter
	Tier I	Tier I	Tier I	Tier I
P	15.8 (C)	12.9 (C)	19.5 (C)	31.1 (C)
Q	8.5	13.0	10.4	21.9
R	17.5	12.7	22.1 (C)	29.7
S	15.8	12.8	19.5 (C)	31.2
T	8.5	10.2	10.4	19.1
V	8.7	10.4	15.3	24.4 (C)
W	18.7	11.9	23.8 (C)	29.2
X	12.2	13.0	11.4 (C)	21.9 (C)
Y	10.8	12.9	14.5	31.1
Z	0.7 (C)	11.2 (C)	11.3	31.7 (C)

8. ALL-ELECTRIC QUANTITIES (Code H): All-electric quantities are applicable to service to customers with permanently-installed electric heating as the primary heat source. All-electric quantities are also applicable to service to customers of record as of November 15, 1984, to whom the former Code W (Basic plus Water Heating) lifeline allowance was applicable on May 15, 1984, and who thereafter maintain continuous service at the same location under this schedule.

If more than one electric meter services a residential dwelling unit, the all-electric quantities, if applicable, will be allocated only to the primary meter.

9. ADDITIONAL METERS: If a residential dwelling unit is served by more than one electric meter, the customer must designate which meter is the primary meter and which is (are) the additional meter(s). Only the basic baseline quantities or basic plus medical allowances, if applicable, will be available for the additional meter(s).

(N)

* The applicable baseline territory is described in Part A of the Preliminary Statement.

(Continued)



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

**SPECIAL
CONDITIONS:**
(Cont'd.)

10. BILLING: A customer's bill is first calculated according to the total rates and conditions above. The following adjustments are made:

BUNDLED SERVICE CUSTOMERS receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rate and Conditions set forth above and the Energy Procurement Surcharge (EPS) as provided in Schedule E-EPS. The energy charge is a portion of the customer's total bill determined by multiplying the average price from Schedule EC for Schedule E-1 by the customer's total usage.

11. RATE REDUCTION BOND CREDIT: Pursuant to Public Utilities Code 368.5, customers will continue to receive their 10 percent credit originally mandated by Assembly Bill 1890 and implemented through Public Utilities Code 368(a), by way of a reduction to Generation. The 10 percent credit applies to the Energy Charge rates applicable under this tariff, which is the portion of the total bill representing rates in effect on January 3, 2001, for Bundled Service Customers. The 10 percent bill credit does not apply to increases in the total rates implemented after January 3, 2001.

Additionally, customers eligible for the credit are obligated to pay a Fixed Transition Amount (FTA), also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS.

12. CALIFORNIA ALTERNATIVE RATES FOR ENERGY (CARE) DISCOUNTS: Customers eligible for PG&E's low income residential tariffs who are assigned to this rate schedule will pay the following charges. CARE customers do not pay the Energy Procurement Surcharge and Additional Energy Procurement Surcharge rates shown elsewhere in this tariff. The Baseline Credit shown below is applicable to all usage up to the total baseline quantity determined as specified under Special Condition 7 of this schedule.

RATES: RATE A

	Trans- mission	Distribu- tion	Public Purpose Programs	Genera- tion	Nuclear Decom- missioning	FTA	Reliability Services	Total Rate	
1. ENERGY CHARGE: (per kWh per SUMMER Month)									(T)
Super Peak	0.00503	0.02696	0.00314	0.54133	0.00048	0.00969	0.00355	0.59018	
Peak	0.00503	0.02696	0.00314	0.14717	0.00048	0.00969	0.00355	0.19602	(T)
Off-Peak	0.00503	0.02696	0.00314	0.01333	0.00048	0.00969	0.00355	0.06218	
Baseline Credit, deduction per KWh of baseline use	—	0.01386	—	—	—	—	—	0.01386	
ENERGY CHARGE: (per kWh per WINTER Month)									(T)
Super Peak	0.00503	0.02696	0.00314	0.39518	0.00048	0.00969	0.00355	0.44403	
Peak	0.00503	0.02696	0.00314	0.21918	0.00048	0.00969	0.00355	0.26803	(T)
Off-Peak	0.00503	0.02696	0.00314	0.03518	0.00048	0.00969	0.00355	0.08403	
Baseline Credit, deduction per KWh of baseline use	—	0.01386	—	—	—	—	—	0.01386	
MINIMUM ENERGY CHARGE per meter per day	0.00756	0.08707	0.00136	0.03356	0.00020		0.00167	0.13142	
TRANSMISSION REVENUE BALANCING ACCOUNT ADJUSTMENT RATE per kWh per Month	(0.00230)	—	—	0.00230	—	—	—	0.00000	



SCHEDULE E-3—EXPERIMENTAL RESIDENTIAL CRITICAL PEAK PRICING SERVICE
(Continued)

**SPECIAL
CONDITIONS:**

**RATES:
(Cont'd)**

RATE B

	Trans- mission	Distribu- tion	Public Purpose Programs	Genera- tion	Nuclear Decom- missioning	FTA	Reliability Services	Total Rate	
1. ENERGY CHARGE: (per kWh per SUMMER Month)									(T)
Super Peak	0.00503	0.02696	0.00314	0.38853	0.00048	0.00969	0.00355	0.43738	
Peak	0.00503	0.02696	0.00314	0.13253	0.00048	0.00969	0.00355	0.18138	(T)
Off-Peak	0.00503	0.02696	0.00314	0.04453	0.00048	0.00969	0.00355	0.09338	
Baseline Credit, deduction per KWh of baseline use	—	0.01386	—	—	—	—	—	0.01386	
ENERGY CHARGE: (per kWh per WINTER Month)									(T)
Super Peak	0.00503	0.02696	0.00314	0.53598	0.00048	0.00969	0.00355	0.58483	
Peak	0.00503	0.02696	0.00314	0.04798	0.00048	0.00969	0.00355	0.09683	(T)
Off-Peak	0.00503	0.02696	0.00314		0.00048	0.00969	0.00355	0.09283	
Baseline Credit, deduction per KWh of baseline use	—	0.01386	—	—	—	—	—	0.01386	
MINIMUM ENERGY CHARGE per meter per day	0.00756	0.08707	0.00136	0.03356	0.00020		0.00167	0.13142	
TRANSMISSION REVENUE									
BALANCING ACCOUNT									
ADJUSTMENT RATE per kWh per Month	(0.00230)	—	—	0.00230	—	—	—	0.00000	
DWR BOND CHARGE:	The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-01-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail bundled sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.								(T)
	For Medical Baseline Customers, no portion of the rates in this schedule shall be used to pay the DWR Bond Charge. For these customers, Generation will be calculated residually based on the total rate less the sum of: Transmission, Reliability Services, Distribution, Public Purpose Programs, Nuclear Decommissioning, and FTA.								(N)
									(N)

Account Number Cycle
2206 938 590 2
[REDACTED]
[REDACTED]
Date Mailed: September 4, 2003

Questions? Preguntas?
Please Call For Favor Llame
1-800-411-SDGE (7343)
Web Address: www.sdge.com
email: info@sdge.com

Statewide Pricing Pilot Customer Information Sheet
Rate EECC DRCPFA

Account Summary	kWh	Effective Price	Total Costs
Super Peak	17	\$0.78303	\$13.31
On Peak	117	\$0.29055	\$33.99
Off Peak	1540	\$0.12324	\$189.79
Total	1674		\$237.10

The effective rates shown above are your average cost of electricity during each Time-of-Use period during the current billing period. The effective rate will change month-to-month based on your changing usage patterns. These effective rates are intended to offer you a more refined method to encourage conservation during particular time periods when energy is more costly to deliver. SDG&E hopes this simplified rate presentation makes your energy use choices and their cost impacts more clear than they would be otherwise.

Shift & Save Program

Seasonal Cost Comparison

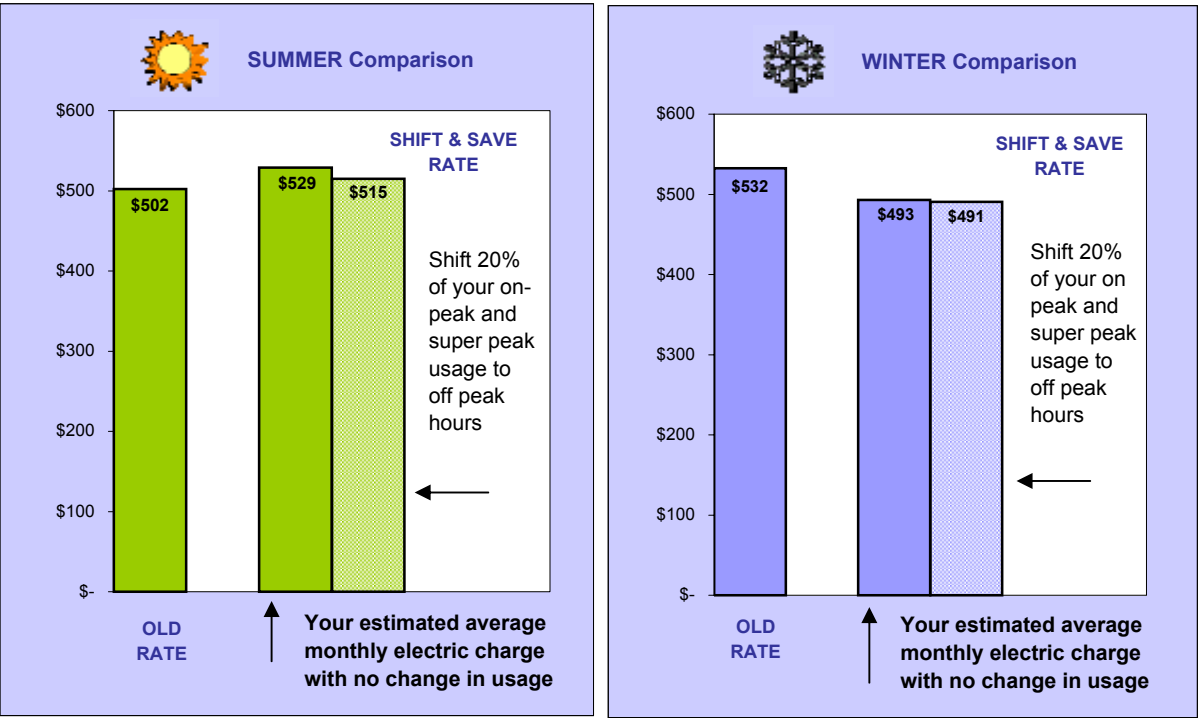
Customer: Tor Garman
Account: 123456789
Rate: DRCPV

The Shift & Save Pricing Plan has higher electric rates during on peak periods from 2 p.m. - 7 p.m. on weekdays and lower rates during off peak periods, weekends and holidays. Up to 15 days a year are "super peak" days, with the highest electric rates. The comparisons show how your bills may change, using your seasonal usage over the past year and your on peak usage, recorded after the installation of your advanced electric meter. Please note that your on peak usage has been recorded for a short time and may vary during the year. You'll receive appreciation payments totaling \$175 for being on the program through April 30, 2004.

Your Estimated Summer and Winter Electric Cost

Note that Shift & Save rates change from summer to winter

Your average **summer** (May-Oct) monthly usage: **2731 kWh**
Your average **winter** (Nov-Apr) monthly usage: **2965 kWh**
Your actual **on peak** (2 p.m.-7 p.m.) usage percentage, since meter installation: **16%** *Note: this may be before you have reduced on peak use.*
⇒ The average residential customer's on peak usage is 16%.



Factors Affecting On Peak Usage (2 p.m. to 7 p.m. Weekdays)

The following activities typically cause higher charges when performed during on peak periods:

- | | |
|---|------------------------|
| Central and room air conditioning | Electric space heating |
| Laundry (washer, electric dryer) | Electric water heating |
| Dishwasher | Incandescent lights |
| Extensive cooking (electric range, electric oven) | Pool pump or spa |

The following appliances typically have a much smaller effect:

- | | |
|--------------------|--------------------|
| Television | Ceiling fans |
| Stereo | Fluorescent lights |
| Electronic gadgets | |

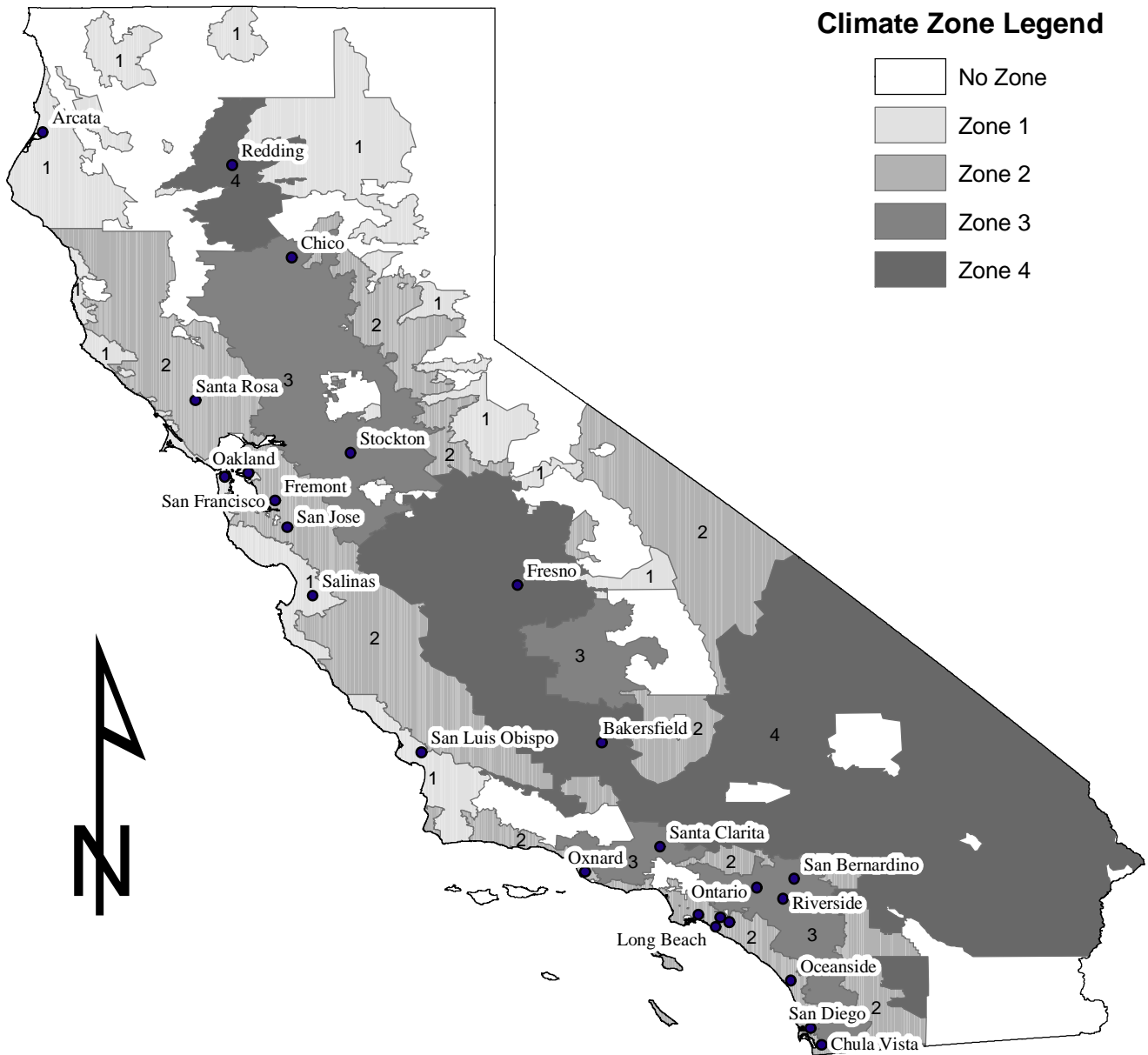
Remember: You'll receive appreciation payments totaling \$175 if you stay on Shift & Save through April 30, 2004

Appendix 2

Statewide Climate Zone Map and Sample Customer Map

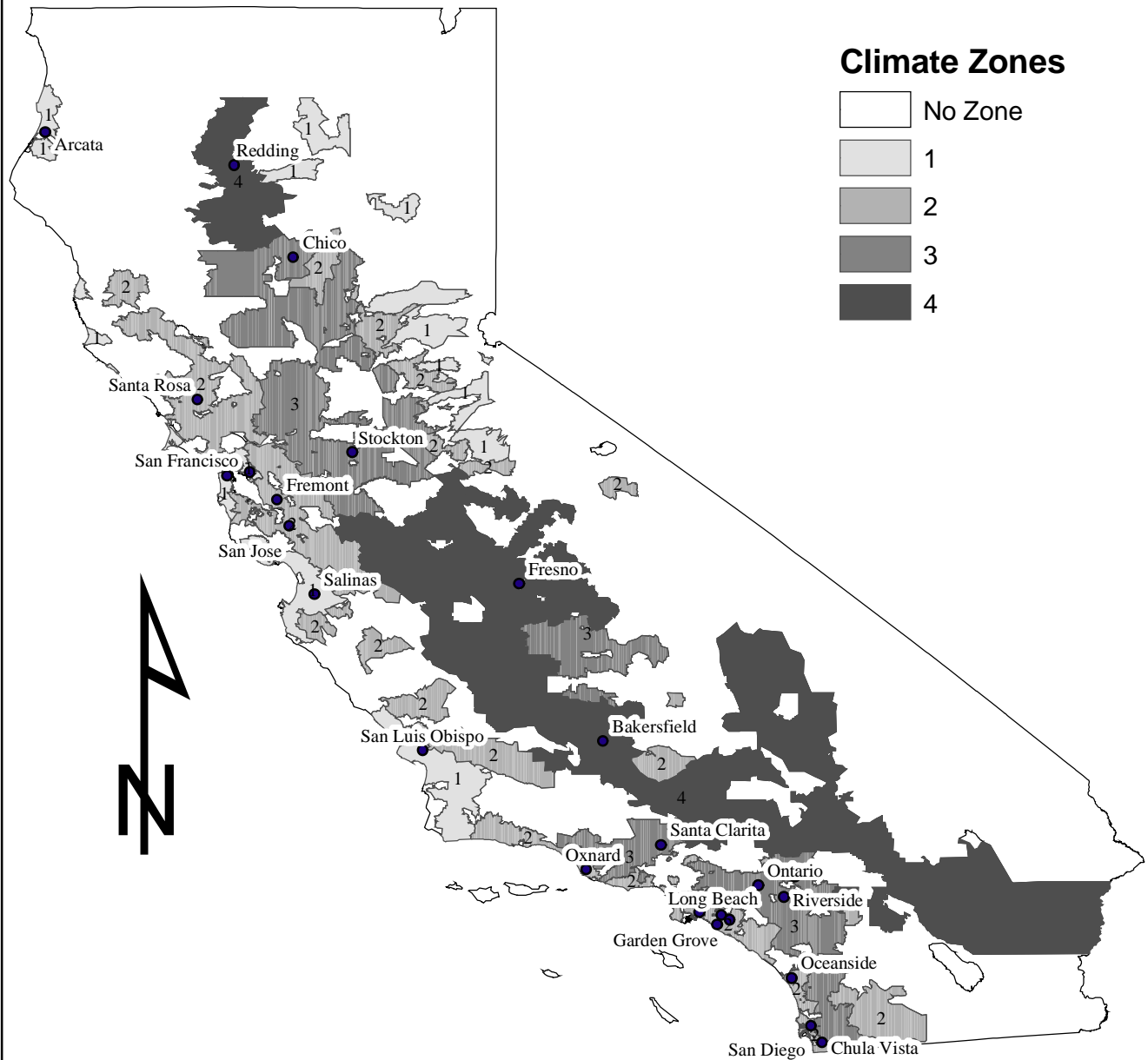
The statewide climate zone map is created from zip codes mapped into all climate zones. The sample customer map uses zip codes of customers in the sample. Selected cities are shown.

California Statewide Climate Zone



Prepared by Charles River Associates
Draft -- Not Audited

SPP Sample Customer Map



Prepared by Charles River Associates
Draft -- Not Audited

Appendix 3

Sample Enrollment Package

Sample enrollment package is for the SDGE residential CPP-F rate.



San Diego Gas & Electric
PO Box 129831
San Diego, CA 92112-9831



April 10, 2003

XXXX
XXXX
XXXX

Dear XXXX:

You have been randomly chosen by San Diego Gas & Electric Company to participate in the statewide Electricity Pricing Research Project. As a participant, you will be offered new information and capabilities designed to help you better manage your electricity costs.

For this project, you have been chosen to participate in our Shift & Save Pricing Plan. Plan details and more information about your role in this project are included on the enclosed sheet titled *Questions and Answers*.

As a participant in this project, you will have an important role in influencing how electricity is priced for millions of California customers in the future. You will be contributing to a statewide research effort to help create a more secure energy future for California.

San Diego Gas & Electric Company is working together with the California Public Utilities Commission, the California Energy Commission, the California Power Authority and other California utilities on this project.

To thank you for your help with this critically important research project we are offering you **appreciation payments totaling \$175.**

Please respond to the Research Support Center by April 25, 2003 as the first step to become eligible for the first installment of your appreciation payments. Either:

- 1. Fill out and mail the enclosed reply card** in the pre-paid envelope today, or
- 2. Call us toll free at 1-800-289-2440.**

Thank you in advance for your support. Participation is voluntary. At the end of this research project, you will return to your current rate (or you may choose another available pricing plan). If you have questions or concerns about this research project, call the Research Support Center at 1-800-289-2440.

If you would like information about SDG&E programs or services, please call us at 1-800-411-SDGE (7343). We are committed to providing exceptional customer service.

Sincerely,

Sandra Williams
Residential Information and Audit Programs Manager

Shift & Save Pricing Plan Information

After reading *Questions and Answers*, please fill out the information below and return in the pre-paid envelope. If you have questions or concerns about this research project, please call our Research Support Center toll free at 1-800-289-2440.

If we need to contact you, when would be the best time to reach you?

Do you occupy this residence (referenced above)?

- ☐ Yes, I occupy this residence
☐ No, I do not occupy this residence

Do you have plans to move in the next 6 months?

- ☐ Yes, I am moving in the next 6 months
☐ No, I have no plans of moving in the next 6 months

Primary Notification Phone Number: Please provide your home phone number or another direct dial number – *other than a cell phone* – where you can be reached during the day. This primary phone number will be the main way we will notify you the day before a Super Peak Day.

____(____)_____
Area Code Please note – Cell Phones cannot be Primary Notification Numbers

Secondary Notification: You may select one or more additional notification methods:

- ☐ E-mail address: _____
☐ Pager (must be alphanumeric): _____
☐ Other phone (can be a cellular phone): _____



Questions and Answers Shift & Save Pricing Plan

How does this project help California?

The Electricity Pricing Research Project will examine new rates that can help create a more secure energy future for California. The new rates in this experiment will allow prices to rise when the demand for electricity on hot afternoons is high and fall when demand is low. The state will use the results of this project to determine if these new rates encourage customers to lower their electric use during high demand periods. If these rates are found to be effective, they can reduce our need to use older and less efficient power plants to meet peak demands.

This research project is scheduled to run between 12 and 18 months, with review by the California Public Utilities Commission on an ongoing basis.

How does this pricing plan work?

Your Shift & Save Pricing Plan will provide you with the information and capabilities you need to better manage your electricity costs. On your new pricing plan, the price you pay for electricity will depend on the time of day, season, and day of the week. The charts on the right show the average rates for this pricing plan.




Your Shift & Save Pricing Plan has the following features:

- ▶ 85% of the time you will be charged an "Off-Peak" rate that is lower than the average rate you pay now. The Off-Peak period includes: all day on Saturday, Sunday and on holidays, and all times except 2 p.m. to 7 p.m. Monday through Friday.
- ▶ 14% of the time you will be charged at a "Peak" rate that is higher than your current average rate. The Peak period includes: 2 p.m. to 7 p.m. Monday through Friday.
- ▶ Less than 1% of the time, 15 days or fewer per year, will be declared "Super Peak Days."
 - On these days, you will be charged at the "Super Peak" rate from 2 p.m. to 7 p.m. For all other hours on these days, you will be charged at the lower Off-Peak rate.
 - You will be notified one day prior to a Super Peak Day, when the cost of electricity is expected to be high due to summer heat storms or local reliability problems.
 - You will be notified by phone and additionally by e-mail, cell phone or pager if you choose.

Look for more information about your Shift & Save Pricing Plan in your Welcome Package in June.

Shift & Save Pricing Plan

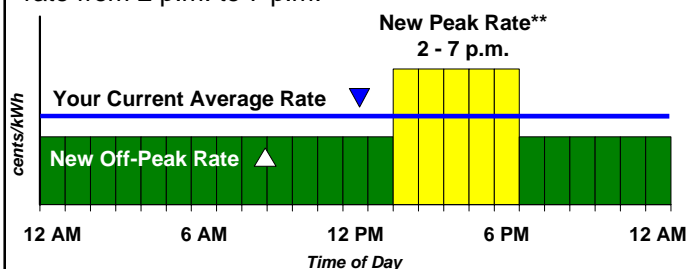
Your Shift & Save Pricing Plan will have three rate periods. The chart below compares current average rates with new average rates for each period. Also, the chart shows how much of the time each rate will be charged under your new pricing plan.

Rate Period	Current Rate* cents/kWh	New Rate* cents/kWh	% of Annual Time on Each Shift & Save Rate
Off Peak	16 cents	13 cents	85% 
Peak	16 cents	25 cents	14% 
Super Peak	16 cents	66 cents	1% 

* These are illustrative rates based on statewide averages. Your actual rates during the experiment will be somewhat different.

Example Rates: Monday - Friday

On weekdays, your rates will increase from 2 p.m. to 7 p.m. The lower, Off-Peak rate will be charged during all other hours, including weekends and holidays. On Super Peak Days, you will be charged the Super Peak rate from 2 p.m. to 7 p.m.



** The price you pay for electricity from 2 p.m. to 7 p.m. Monday through Friday will vary depending on whether or not a Super Peak Day has been declared.

Please contact our Research Support Center today!

Call toll free, at 1-800-289-2440 Monday through Friday, 8 a.m. to 8 p.m. or Saturday 9 a.m. to 12 noon OR return the enclosed enrollment card. We must hear from you by the enrollment date in the enclosed letter for you to be eligible for your appreciation payments.



**Pacific Gas and
Electric Company™**



**SOUTHERN CALIFORNIA
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What Happens When?

- **Within a few weeks**, your old electric meter will be replaced with a new advanced digital electric meter, free of charge. This new meter will measure your electricity use every 15 minutes.
- **In May**, we will send you a survey to assist with our research. You will receive your first appreciation payment of \$25 after you complete and return the survey.
- **During the project**, you may also be contacted by phone so we can get your feedback on how the Shift & Save Pricing Plan is working for you.
- **In June**, look for a Welcome Package in the mail with tips on how to reduce your electricity costs and directions on how to use our website to review your electricity use. Information comparing your electric bill on your new Shift & Save Pricing Plan with your current pricing plan will also be included in this package.
- **Starting in July**, you will be charged for electricity based on the Shift & Save Pricing Plan.
- **The day before** a Super Peak Day is declared, you will get a notification phone call.
- **At the end of October 2003**, you will be eligible for a second appreciation payment of \$75 if you have remained on the Shift & Save Pricing Plan.
- **At the end of April 2004**, you will be eligible for the final \$75 if you have remained on the Shift & Save Pricing Plan.

What is my role in the program?

Your role will be to provide feedback on your new rate, bills, and information you receive, as well as to adjust your electricity use if you choose. By participating in this experiment, you will be contributing to a statewide effort to create a more secure energy future for California.

Terms and Conditions

Participation in this project is voluntary.

Customers can remove themselves from the Shift & Save Pricing Plan at any time, but you must stay on the rate through the end of October 2003 to receive a \$75 appreciation payment. In order to qualify for the Shift & Save Pricing Plan:

- The person whose name appears on the enclosed letter must occupy the home;
- You must not be planning to move within the next six months;
- You must provide us with a notification phone number, not a cell phone, to be used for Super Peak Day notification. Details on how notification works will be included in your Welcome Package in June;
- Your utility must successfully install the advanced meter at your home.

When do I get \$175?

To thank you for participating in this research project, we are offering you \$175.

Your \$175 appreciation payments will come in three checks. The first \$25 will be sent to you after you return a completed survey that we will mail out in May. You will receive two additional \$75 checks: one in Fall of 2003 and the other in the Spring of 2004 (as long as you continue to participate).

Will I save on my electric bill?

The savings you can achieve on your electric bill will depend on how much electricity you currently use during the Peak period and your ability to shift your electricity use to Off-Peak periods or lower your electricity use. Under the Shift & Save Pricing Plan, if you take no steps to lower your electricity use from 2 p.m. to 7 p.m. Monday through Friday, your bill may go up or down compared to what it would have been at your current rate. If you do take steps to reduce your electricity use during the Peak period, your bill is more likely to go down.

An average customer uses about 18% of their electricity during Peak and Super Peak periods. If you use less electricity during that time than the average customer, your bills will go down. If you do not reduce your usage during the Peak period and you use more electricity during that time than the average customer, your bills will go up.

A new digital meter will be installed at your home at no charge to you. This new meter will allow us to measure your electric use every 15 minutes. During this project, you will be given information on your electricity use and how much your bill has gone up or down relative to your old rates. This information will be available to you through a secured website or by contacting us. **We will also provide helpful tips on how to shift or save during the Peak and Super Peak periods.**

Thanks for your help!

Pricing plans similar to the Shift & Save Pricing Plan are being used or tested in many areas of California, as well as in other states. Your participation in this research project is a crucial element in our statewide effort to create a more secure energy future for California.

If you have questions or concerns about participating in the Electricity Pricing Research Project, please call our research staff toll free at

1-800-289-2440

Research Project Sponsors:

- ▶ The California Public Utilities Commission
- ▶ The California Energy Commission
- ▶ The California Power Authority
- ▶ Pacific Gas & Electric Company
- ▶ Southern California Edison
- ▶ San Diego Gas & Electric

Appendix 4

Sample Welcome Package

Sample welcome package is for the SDGE residential CPP-F high Summer rate.

Welcome Package Contents

Your Welcome Package gives you the information you need to better manage your home's electricity costs using your new Shift & Save Pricing Plan.

Quick and Important Facts Just got a minute or two? Read this first.	Page 2
Taking Advantage of Your New Pricing Plan See three examples of customers' electricity use decisions and savings on the Shift & Save Pricing Plan.	Page 3
Shift & Save Pricing Plan Details Your new rates are lower during mornings, early afternoons, nights and weekends.	Page 9
Tips for Saving Money Check out no-cost and low-cost ways to save on your new rates.	Page 11
Appliance Electricity Cost Tables Find out which of your appliances use the most and the least electricity.	Page 13
Electricity Savings Calculations Learn how to calculate appliance electricity costs and savings.	Page 16
New Billing Information See an example of your new electric bill.	Page 18
Calendar Note when you will be eligible for appreciation payment checks and other key events.	Page 21
More Information and Resources	Page 22



TIP

Keep this Welcome Package handy so you can check for tips and find out where to get more information as you get used to your new pricing plan. There's even a pocket in the back so you can easily keep track of your bills and other information about your electricity use.



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Quick and Important Facts



T I P

Check out the examples on the following pages for suggestions about how you can better manage your electricity use and costs on your new pricing plan. Look on our Web site at www.sdge.com/eprp or call us at 1-800-411-SDGE (7343) to find out more!

Off-Peak Rates: Your new Off-Peak rate is lower than your current rate on weekdays before 2 p.m. and after 7 p.m., as well as all hours on weekends and holidays (about 85% of the time).

Peak Rates: From 2 p.m. to 7 p.m. Monday through Friday, excluding holidays, you will be charged a Peak rate that is higher than your current rate (about 14% of the time).

Winter and Summer Rates: Your rates will be different in the summer than in the winter.

Annual Bill: Depending on how you use electricity, your bills could go up or down even if you do not shift or reduce your electricity use.

Shift and Reduce Your Use to Save Money: If you shift your electricity use from Peak times to your new lower Off-Peak times, your bills will be lower than if you do not shift your use. Reducing your electricity use at any time can help your bills go down even more.

Super Peak Rates: When a Super Peak Day has been declared, you will be notified the day before. You will be charged a Super Peak rate for the electricity you use during this period (about 1% of the year). This Super Peak rate is four to five times higher than your current rate.

Super Peak Days: There will be 15 or fewer Super Peak Days in a calendar year. You will only be charged Super Peak rates between 2 p.m. and 7 p.m. on weekdays when a Super Peak Day has been declared. A Super Peak Day will never be declared on a weekend or a holiday.

Taking Advantage of the Shift & Save Pricing Plan

Will your electricity bill go up or down on your new Shift & Save Pricing Plan? That depends on how much electricity you use during the Peak period, weekdays from 2 p.m. to 7 p.m., and your ability to reduce your electricity use or shift your use to Off-Peak periods.

Peak Electricity Use Drives Your Bill

An average customer uses 18% of their electricity during the Peak period, Monday through Friday, 2 p.m. to 7 p.m. Under the Shift & Save Pricing Plan, the proportion of electricity you use during the Peak period is important.

Customers who take no action to reduce or shift their electricity use away from the Peak period should see their bills remain about the same as their current electric bills. Customers who use more than 18% of their electricity during the Peak period will see their bills go up. Customers who use less than 18% of their electricity during the Peak period will see their bills go down.

Reducing Peak Electricity Use Saves Money

In general, reducing your use or shifting your electricity use away from the Peak period will lower your bill compared to taking no action. Your bill savings may be higher in the summer or the winter, so it is important to consider your total electricity costs over the course of a year.

Without knowing how you use electricity today, what kind of heating and cooling you have or what other appliances you use, it is hard to predict whether your bill will go up or down on your new pricing plan. To help you determine how your new pricing plan might help you better manage your electricity costs, three examples follow to show how some customers might make decisions to change their electricity choices based on their new pricing plan. None of these will be a perfect match for your home, but look for one that is a good fit. Which example is most like your home?

- Sheri and Mike have three kids and use electricity all day long.
- Dan and Maria are retired and use air conditioning in the afternoon.
- Patty and John both work and don't have air conditioning.

More Information and Resources

Each example offers specific ideas about how you can reduce your annual electric bills using your new pricing plan. Also, you can see what kind of daily bill savings these customers could have if they chose to shift or reduce their electricity use during Peak periods. If your electricity use seems different than described in these examples, we can help you identify savings opportunities in your own home. Call us toll-free at 1-800-411-SDGE (7343) or visit our Web site at www.sdge.com/eprp for more information about ways you can save money on your electric bill.



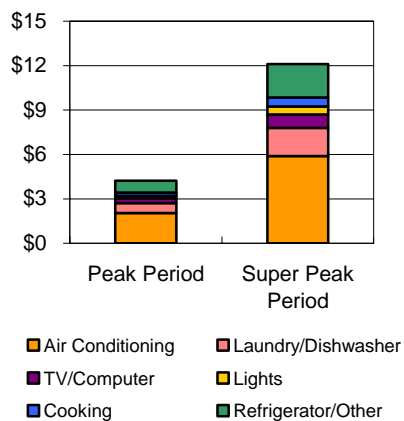
T I P

Check out examples of three different families on your new pricing plan on the next few pages. These examples offer you some ideas about what kind of actions you might take to lower your bills. Call us toll-free at 1-800-411-SDGE (7343) if you have questions or visit our Web site at www.sdge.com/eprp for more tips to help you take advantage of your new pricing plan.

Example 1. All Day Electricity Use: Family with Young Children

CHART 1

Routine Electricity Cost



Weekday Electricity Use Habits

Sheri and Mike have three young children, one in school and two at home. They live inland and use their air conditioning in the summer during the afternoon and into the evening. They fix dinner for their family between 5 p.m. and 6 p.m. and run the dishwasher twice a day, once right after dinner. They also do one load of laundry each day, after 2 p.m.

This family uses more electricity than average during the Peak period, Monday through Friday, 2 p.m. to 7 p.m. If they take no action to shift or reduce their electricity use, their bills will go up on average compared to their current bills.

Chart 1: Electricity use between 2 p.m. to 7 p.m. on Super Peak Days is about three times more expensive than on other weekdays.

Reducing Peak Electricity Costs

Sheri and Mike have several options to lower their bills on their new Shift & Save Pricing Plan. Their biggest Peak electricity use is air conditioning, followed by doing laundry and using their dishwasher. Their electric clothes dryer and dishwasher are more expensive to operate during Peak and Super Peak periods. Sheri and Mike can shift their use of these appliances to Off-Peak times. Lighting, cooking and other electricity uses are all lower cost items.

CHART 2

Shift & Reduce Electricity Cost

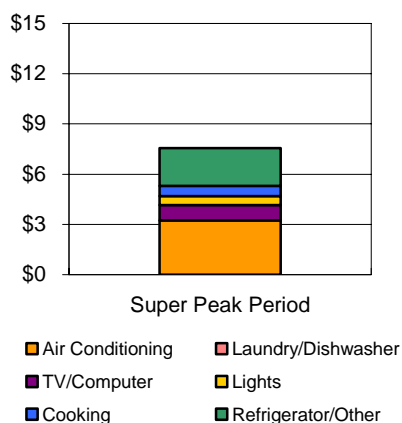


Chart 1 and **Chart 2** show the cost of Sheri and Mike's electricity use between 2 p.m. and 7 p.m. on different days. Even though they are using the same amount of electricity during the 2 p.m. to 7 p.m. period, **Chart 1** shows that they will pay more to use their appliances during this time on Super Peak Days, compared to what they will pay for the same electricity use during the Peak period on a regular weekday.

On most weekdays in the summer or winter, the cost of Sheri and Mike's electricity use between 2 p.m. and 7 p.m. will be between \$3 and \$5 per day. However, because of their high electricity use during the Peak period, when a Super Peak Day is declared, their electricity use between 2 p.m. to 7 p.m. could cost as much as \$12 if they take no action to shift or reduce their use.

Chart 2: If Sheri and Mike shift and reduce their electricity use from 2 p.m. to 7 p.m. on Super Peak Days, their electricity costs for the Super Peak period could drop by about a third.

Example 1. All Day Electricity Use: Family with Young Children

Cost Saving Ideas: Shift & Save

One way for Sheri and Mike to reduce their family's everyday electricity costs would be to move their laundry and dishwasher use away from the Peak period of 2 p.m. to 7 p.m. Monday through Friday.

Chart 3 shows Sheri and Mike's hourly electric use on a Super Peak Day, assuming they take no action to shift or reduce their use.

Chart 4 shows their hourly electricity use on the same day, assuming laundry is done in the morning, they pre-cool their home before 2 p.m. and run the dishwasher after 7 p.m.

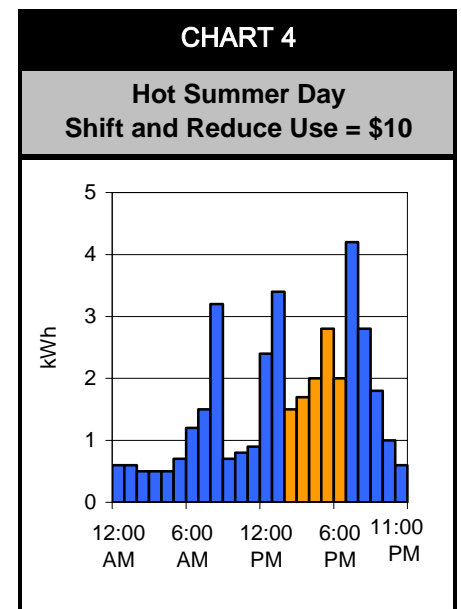
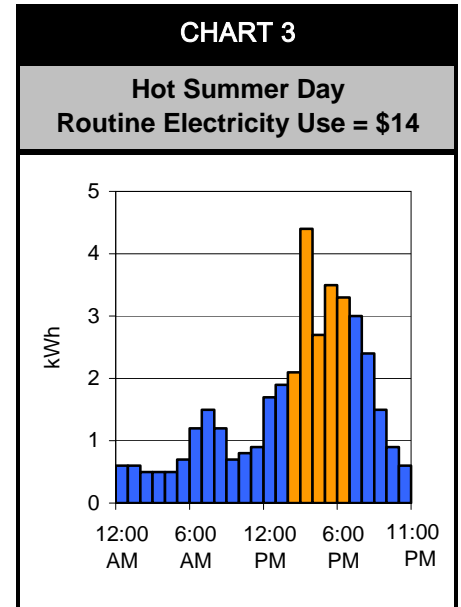
Chart 3 and Chart 4: By shifting and reducing their electricity use during Peak hours, Sheri and Mike can save as much as \$4 each Super Peak Day.

On Super Peak Days, Sheri and Mike could pre-cool their home by lowering their thermostat setting by two or three degrees before 2 p.m. when their rates are lower. By pre-cooling their home, Sheri and Mike's air conditioner will run about two hours less while keeping their home comfortable during the more expensive Peak period from 2 p.m. to 7 p.m. Pre-cooling can reduce Sheri and Mike's cost for using electricity that day by a couple of dollars.

More Cost Saving Ideas

If they wanted to reduce their Super Peak use and further lower their electricity costs on those days, they might consider keeping the blinds or curtains closed and preparing a microwave dinner. Using a gas oven or an electric stove in the summer heats up Sheri and Mike's home, increasing the electricity used by their refrigerator and air conditioner.

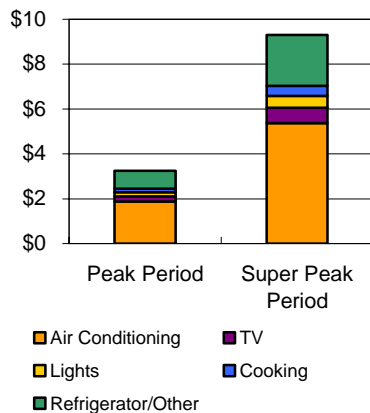
In areas where lights are usually on in the evening, compact fluorescent lamps will pay for themselves with electricity cost savings in about a year. Also, because of the amount of laundry and dishwashing Mike and Sheri typically do, they might consider, when it is time to replace these appliances, purchasing a new ENERGY STAR® model to increase their electricity cost savings.



Example 2. Afternoon Electricity Use: Customers At Home

CHART 5

Routine Electricity Cost



Weekday Electricity Use Habits

Dan and Maria are retired, active and live in the desert. They are often away from their home in the morning and early afternoon. They eat dinner at home at about 6 p.m. most evenings. They draw their curtains when they leave home since the sunlight increases air conditioning use.

Dan and Maria generally use electricity during the Peak period, Monday through Friday, 2 p.m. to 7 p.m. If they take no action under the Shift and Save Pricing Plan, their bills will go up compared to their current bills.

Reducing Peak Electricity Costs

As **Chart 5** and **Chart 6** show, the biggest factor in Dan and Maria's electricity use is air conditioning.

Chart 5: Electricity use between 2 p.m. to 7 p.m. on Super Peak Days is about three times more expensive than on other weekdays.

Most weekdays in the summer or winter, the cost of their electricity use between 2 p.m. and 7 p.m. is about \$3 per day. However, because of their high electricity use during the Peak period, when a Super Peak Day is declared, their electricity use between 2 p.m. to 7 p.m. could be as much as \$9.

CHART 6

Shift & Reduce Electricity Cost

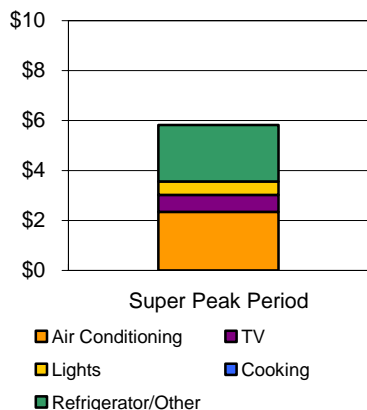


Chart 6: If Dan and Maria shift and reduce their electricity use from 2 p.m. to 7 p.m. on Super Peak Days, their electricity costs for the Super Peak period could drop by about a third.

Example 2. Afternoon Electricity Use: Customers At Home

Cost Saving Ideas: Shift & Save

One of the ways Dan and Maria could reduce their electricity use would be to raise their thermostat's temperature setting a couple of degrees during the Peak period. Also, they could keep their curtains closed on the south and west sides of their home in the afternoon. During Super Peak periods, if they do this and also pre-cool their home before 2 p.m., they could lower their cost for electricity that day by as much as \$3.

Chart 7 shows Dan and Maria's hourly electricity use on a Super Peak Day, assuming they take no action to shift or reduce their use.

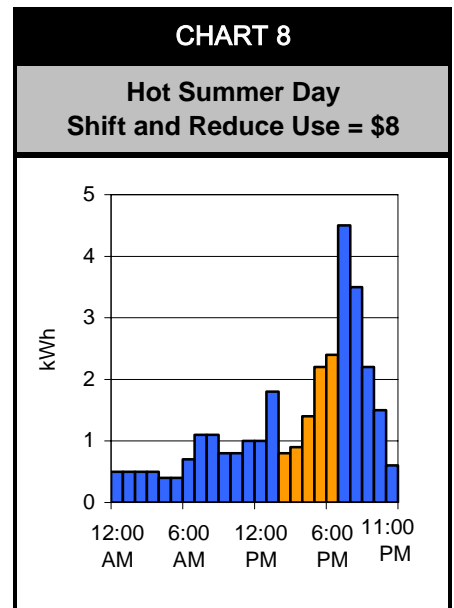
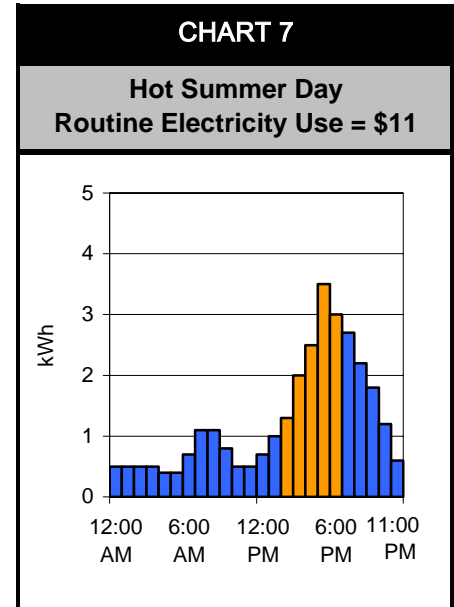
Chart 8 shows their hourly electricity use on the same day, assuming they pre-cool their home before 2 p.m. and decide to prepare a no-cook dinner or eat out that evening.

Chart 7 and Chart 8: By shifting and reducing their electricity use during Peak hours, Dan and Maria can save as much as \$3 each Super Peak Day.

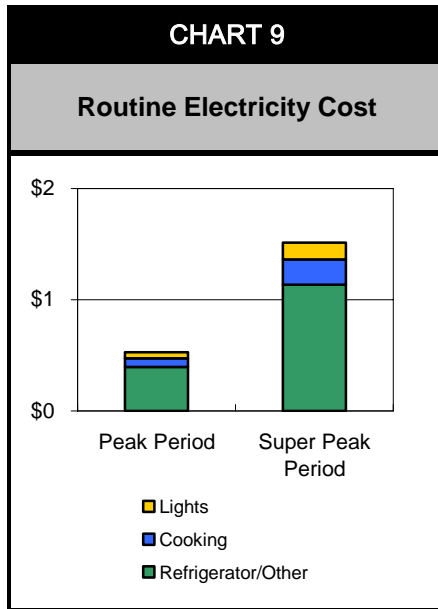
On Super Peak Days, they could pre-cool their home by lowering their thermostat setting by two or three degrees before 2 p.m. when their rates are lower. By pre-cooling their home, Dan and Maria's air conditioner will run about two hours less while keeping their home comfortable during the more expensive Peak period from 2 p.m. to 7 p.m. Pre-cooling can reduce their cost for using electricity that day by a couple of dollars.

More Cost Saving Ideas

In areas where lights are usually on in the evening, compact fluorescent lamps will pay for themselves with electricity cost savings in about a year. If Dan and Maria are working on their landscaping, adding well-placed shade trees and bushes, particularly on the south and west sides of their home, can provide them with electricity savings while providing Dan and Maria the same level of cooling in their home.



Example 3. No Air Conditioning: Customers At Work



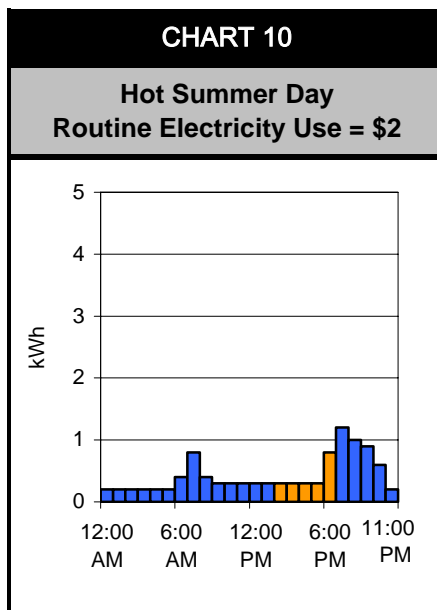
Weekday Electricity Use Habits

Patty and John both work away from home and usually return to their apartment between 6:30 p.m. and 7:30 p.m. They live on the coast and do not have air conditioning. Because of their work schedule, they use their dishwasher after 7 p.m. and do laundry on the weekends.

Patty and John use less electricity during the Peak period, Monday through Friday, 2 p.m. to 7 p.m., than the average customer. Since most of their electricity will be charged at the new, lower Off-Peak rate, their bill is likely to go down without shifting or reducing their electricity use.

Chart 9: Electricity use between 2 p.m. to 7 p.m. on Super Peak Days is about three times more expensive than on other weekdays. However, since Patty and John are not home in the afternoon, their Super Peak costs are under a dollar more than on other weekday afternoons.

On most days, the cost of their electricity use is between about \$1 and \$2. Because they are not home during most of the Peak period and don't have air conditioning, Patty and John's cost on a Super Peak Day is about \$2. As shown in **Chart 9**, they do not have many options to shift or reduce their use during a Super Peak period because most of their electricity use is for appliances that are always on, like their refrigerator.



Cost Saving Ideas: Shift & Save

However, even Patty and John can lower their monthly bills. In areas where lights are usually on in the evening, compact fluorescent lamps will pay for themselves with electricity cost savings in about a year. This is an investment that will be easy to take with them if Patty and John move in the future.

Chart 10 shows Patty and John's hourly electricity use on a Super Peak Day, assuming that they take no action to shift or reduce their use. Shifting what they can control after 6 p.m. will save them under \$0.20 that day.

Shift & Save Pricing Plan Rates

Your new rates are detailed on the next page. About 85% of the time, you will be charged your new Off-Peak rate, which is 10% to 20% lower than your current average rate today. Your new Peak rate is higher than your current average rate for five hours per day on weekdays, excluding holidays. No more than 15 days annually, or about 1% of the year, you will be charged a Super Peak rate that is significantly higher than your current average rate. You will receive a notification call the day before a Super Peak Day is declared, as well as notification by any other method you selected in your program enrollment.

Rates vary by season:

- May through October, you will pay summer rates;
- November through April you will pay winter rates.

Rates vary by time of day and day of the week:

- All weekends and holidays, you will be charged an Off-Peak rate;
- Weekdays from 2 p.m. to 7 p.m. you will be charged a Peak rate;
- Weekdays at all other times, you will be charged an Off-Peak rate;
- Up to 15 weekdays per year, after you have been notified that a Super Peak Day has been declared, you will be charged a Super Peak rate from 2 p.m. to 7 p.m.

Super Peak Period Notification

You will be notified the day before a Super Peak Day. A Super Peak Day may be declared when the weather is especially hot, demand for electricity is high, or a technical problem creates high prices for electricity. We will call your Primary Notification phone number to notify you of a Super Peak Day, as well as attempt to contact you by any secondary notification method you have chosen. If you would like to change your notification methods or contact information, please give us a call at 1-800-411-SDGE (7343).

Save Money on Your New Shift & Save Pricing Plan

Will your electric bill go up or down on your new Shift & Save Pricing Plan? That depends on how much electricity you use during the Peak period, weekdays from 2 p.m. to 7 p.m., and your ability to reduce your electricity use or shift your use to Off-Peak periods. For more information, check out *Taking Advantage of the Shift & Save Pricing Plan* beginning on page 3. For cost-saving tips, see page 11.



TIP

You now have three rates on your new pricing plan:

- Your **Off-Peak** rate is lower than your current rate all weekend, and weekdays except from 2 p.m. to 7 p.m.
- Your **Peak** rate is higher than your current rate Monday through Friday from 2 p.m. to 7 p.m.
- Your **Super Peak** rate is the highest rate, but is only charged from 2 p.m. to 7 p.m. up to 15 days per year, about 1% of the time.

Check out the next page for rate details and charts.

Shift & Save Pricing Plan Details¹

On your new Shift & Save Pricing Plan, you will be charged lower rates on mornings, early afternoons, nights and weekends. The price you pay for electricity will depend on the season, time of day and day of the week.

Chart 11




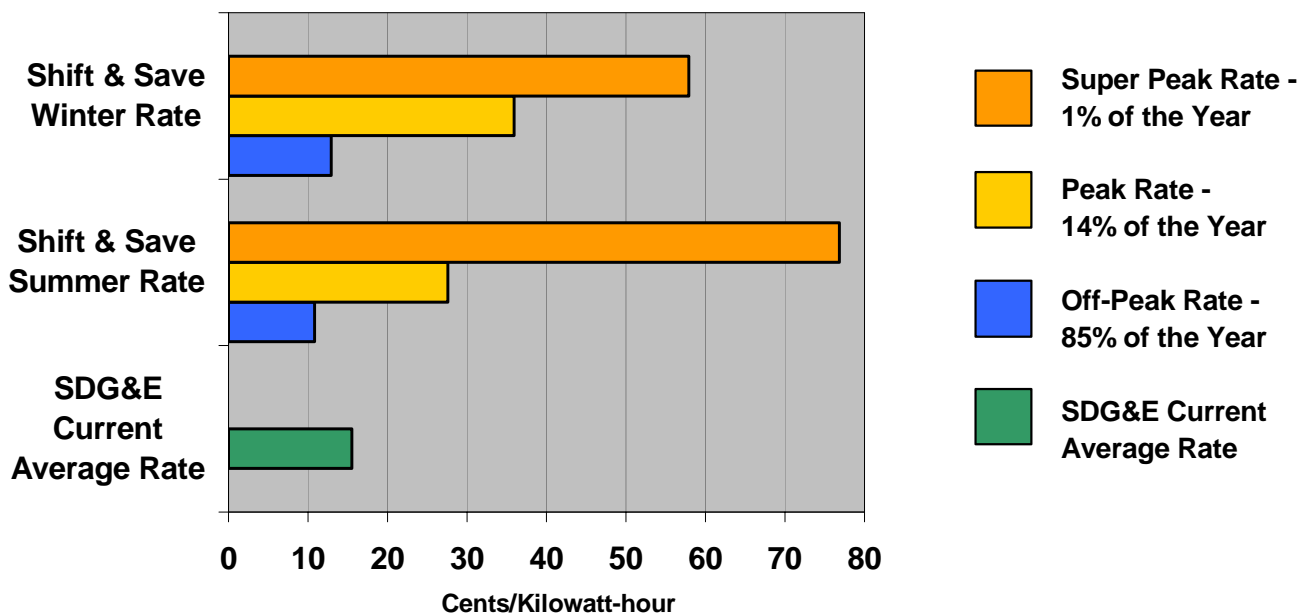
Rate Period	Rate Time	% of Annual Time on Each Shift & Save Rate	New Winter Rate	New Summer Rate	Current Rate (SDG&E Average)
Off-Peak	Weekends, Holidays and Monday-Friday before 2 p.m. and after 7 p.m.	85% of the time 	12.9 cents/kWh	10.8 cents/kWh	15.5 cents/kWh
Peak	Monday-Friday 2 p.m. to 7 p.m. except holidays	14% of the time 	35.9 cents/kWh	27.6 cents/kWh	15.5 cents/kWh
Super Peak	When declared: Monday-Friday 2 p.m. to 7 p.m. except holidays	1% of the time 	57.9 cents/kWh	76.8 cents/kWh	15.5 cents/kWh

Chart 12

Shift & Save Pricing Plan Rates in Summer and Winter Compared to Average Current Rate



¹ These rates represent the part of your electric bill that changes under your new Shift & Save Pricing Plan. You will be charged the same surcharges, receive the same discounts and pay the same taxes that you would pay on your current rate. Your new rates may be adjusted from time-to-time with Public Utility Commission approval, just as your current rate is. You will receive information if a rate change adjustment is planned.

Money Saving Information Sources

During this project, you will be offered detailed information on your home's electricity use as well as bill examples under your current rate and your new Shift & Save Pricing Plan. This new information will be available to you online at www.sdge.com/eprp or by calling us at 1-800-411-SDGE (7343).

SDG&E's Web site offers extensive information about no-cost and low-cost ways to save on your electric bill, including information about rebates offered today. This information is also available by calling SDG&E and requesting it by mail. You can use this information to check and see if the actions you are taking to shift or reduce your electricity use are having an impact on your overall bill.

Shift and Reduce Peak Use to Save Money

Reducing your electricity use anytime will help to lower your electric bill, but reducing use during the Peak rate times on Monday through Friday between 2 p.m. to 7 p.m. will have the most impact on your bill because your new rates will be higher then. Shifting your use away from this time to mornings, early afternoons, nights and weekends will also reduce your bill compared to taking no action. Reducing your electricity use or shifting your use away from Peak hours on Super Peak Days is especially important if you aim to lower your total bill.



T I P

Shifting your electricity use to your new, lower Off-Peak periods on mornings, evenings and weekends can save you money on your electric bills. Need more tip ideas? Call us toll free at 1-800-411-SDGE (7343) or visit our Web site at www.sdge.com/eprp

Maximum Impact Money Savers

Air Conditioning, Electric Heating and Pool Pumps

- **No-cost:** If you have air conditioning, raise your thermostat setting a few degrees between 2 p.m. and 7 p.m. Monday through Friday.
- **No-cost:** If you have electric heat, lower your thermostat setting a few degrees between 2 p.m. and 7 p.m. Monday through Friday.
- **No-cost:** If you have a swimming pool or a spa, set your timer to filter Off-Peak and, if possible, consider reducing your filtering time. Pool maintenance companies recommend your filter be on a minimum of 4-6 hours a day in the summer and 2-4 hours a day in the winter. If you have a pool maintenance service, be sure to check with them before shifting or reducing the hours of filtration.
- **Smart Investment:** A whole house fan can help by pulling the cool outdoor air inside and pushing warm indoor air outside. It can be an efficient cooling alternative during all but the hottest times each day.

Tips for Saving Money



TIP

Little things add up if you do them on a regular basis. Save over \$40 a year by turning off just six standard 60 Watt light bulbs for an hour during the Peak period from 2 p.m. to 7 p.m. Monday through Friday.

Easy Shift Tips

Electric Dryers, Air Conditioning, Dishwashers, Pool Pumps

- **No-cost:** Shift your electricity use to weekday mornings, early afternoons, evenings after 7 p.m. or weekends.
- **No-cost:** Use your programmable thermostat to lower your thermostat setting to pre-cool your home at Off-Peak times when your rate is lower if you expect to use air conditioning during the Peak period. You'll use less electricity than cooling your home down at Peak times.

Easy Reduce-Your-Use Tips

Save money, especially during Peak and Super Peak periods

- **No-cost:** Turn off your lights, television, computer and monitor when you're not using them.
- **Low-cost:** Make your next light bulb a compact fluorescent lamp (CFL) for high use fixtures. A CFL uses up to 75% less electricity, lasts 10 times longer than a conventional incandescent light bulb and will pay for itself with electricity savings in about a year.

Smart Investments

If you plan on making any of the following investments, consider the high efficiency option, it will save you money all day and all year

- **New appliance:** Make sure it is an ENERGY STAR® model. After you've identified these models, check the EnergyGuide Labels for additional energy saving choices.
- **Landscaping:** Consider shading the southern and western sides of your home from the summer afternoon sun. It may lower the amount of electricity used by your air conditioner.
- **New windows:** Consider high efficiency windows, as well as shades, awnings or curtains to keep your home warmer in the winter and cooler in the summer. All of these investments can help lower the amount of electricity used by your air conditioner.
- **Outdoor lighting:** Use photosensors or motion detectors so outdoor lights are only on when you need them to be. If you leave any lights on overnight, these devices can pay for themselves through electricity savings within a year.

Shifting Electricity Use Off-Peak Saves Money

The five tables on pages 14 and 15 are a handy reference so you can see what it costs at different times to use different appliances in your home. Look for the appliances you have in your home and compare the electricity cost to operate those appliances at different times on your new pricing plan.²

Table 1. Cost of Operating Common Major Appliances

You can shift the time of day when you use many of these appliances to take advantage of your new, lower Off-Peak rate.

Table 2. Cost of Operating Heating and Cooling Equipment

Pre-cooling your home in hot weather and using curtains and blinds are ways to lower some of your most expensive electricity use.

Table 3. Cost of Operating Other Large Appliances

If you have any of these appliances, consider shifting some of your use to weekends, mornings and evenings after 7 p.m.

Table 4. Cost of Operating Light bulbs and Fixtures

Using compact fluorescent lamps and fixtures will pay for themselves through electricity savings in about a year.

Table 5. Cost of Operating Other Small Appliances

These appliances use the least amount of electricity around your home.

These tables can help you find opportunities to shift or reduce your electricity use. Our goal is to give you the information you need so you can make wise choices about when and how much electricity you use.

Even though the costs may look small in the tables, they can add up. Check out *Electricity Savings Calculations* on page 16 to see examples of how you can save money by shifting or reducing your electricity use.



T I P

How much does it cost to use the appliances around your house? The tables on the next two pages show you how much it costs you to use each appliance on each of your new rates.

² The costs presented to operate the appliances shown in these tables are based on your new rates. Individual costs may vary depending on the model, age and efficiency of your own appliances.

Appliance Electricity Cost Tables

Table 1. Cost of Operating Common Major Appliances

Common Major Appliances	Use Time	Cost Per Use					
		Summer Prices (May-October)			Winter Prices (November-April)		
		Off-Peak	Peak	Super Peak	Off-Peak	Peak	Super Peak
Dryer (Electric heat)	1 load	\$0.30	\$0.80	\$2.28	\$0.36	\$1.05	\$1.71
Oven (electric)	1 hour at 400 degrees	\$0.15	\$0.40	\$1.14	\$0.18	\$0.53	\$0.86
Dishwasher	1 load	\$0.10	\$0.27	\$0.76	\$0.12	\$0.35	\$0.57
Range/stove (electric)	15 min. per burner	\$0.03	\$0.08	\$0.23	\$0.04	\$0.11	\$0.17
Washing Machine	1 load	\$0.03	\$0.09	\$0.24	\$0.04	\$0.11	\$0.18
Dryer (Gas heat--excludes gas charges)	1 load	\$0.04	\$0.11	\$0.30	\$0.05	\$0.14	\$0.23
Desktop computer (monitor & printer)	1 hour	\$0.02	\$0.06	\$0.17	\$0.03	\$0.08	\$0.13
Television	1 hour	\$0.02	\$0.04	\$0.12	\$0.02	\$0.06	\$0.09

Table 2. Cost of Operating Heating and Cooling Equipment

Common Major Appliances	Use Time	Cost Per Use					
		Summer Prices (May-October)			Winter Prices (November-April)		
		Off-Peak	Peak	Super Peak	Off-Peak	Peak	Super Peak
Whole House Fan *	1 hour	\$0.03	\$0.09	\$0.24	\$0.04	\$0.11	\$0.18
Portable Fan *	1 hour	\$0.02	\$0.04	\$0.11	\$0.02	\$0.05	\$0.09
Ceiling Fan *	1 hour	\$0.01	\$0.03	\$0.08	\$0.01	\$0.04	\$0.06
Portable Space Heater (1500 Watts)	1 hour (50% cycling factor)**	--	--	--	\$0.09	\$0.26	\$0.43
Electric Baseboard Heater (3000 Watts)	1 hour (50% cycling factor)**	--	--	--	\$0.18	\$0.53	\$0.86
Central AC (3 ton)	1 hour (50% cycling factor)**	\$0.20	\$0.54	\$1.52	--	--	--
Room/Wall AC Unit (1 ton)	1 hour (50% cycling factor)**	\$0.08	\$0.20	\$0.57	--	--	--

* Using a fan can result in lower air conditioning and heating usage.

** The cycling factor is the amount of time equipment is running during an hour of operation. The cycling time can vary greatly depending on the thermostat setting, outside temperature and the characteristics of your home.

Appliance Electricity Cost Tables

Table 3. Cost of Operating Other Large Appliances

Common Major Appliances	Use Time	Cost Per Use					
		Summer Prices (May-October)			Winter Prices (November-April)		
		Off-Peak	Peak	Super Peak	Off-Peak	Peak	Super Peak
Electric Spa Heater	30 min.	\$0.25	\$0.67	\$1.90	\$0.30	\$0.88	\$1.43
Pool Filter	1 hour	\$0.18	\$0.48	\$1.37	\$0.22	\$0.63	\$1.03
Electric Water Heater	1 warm water wash load	\$0.15	\$0.39	\$1.12	\$0.18	\$0.52	\$0.84
Electric Water Heater	6 min. shower	\$0.12	\$0.32	\$0.91	\$0.15	\$0.42	\$0.69
Spa Filter	1 hour	\$0.06	\$0.17	\$0.48	\$0.08	\$0.22	\$0.36
Water Bed Heater	5 hours	\$0.05	\$0.12	\$0.34	\$0.05	\$0.16	\$0.26

Table 4. Cost of Operating Light Bulbs and Fixtures

Common Major Appliances	Use Time	Cost Per Use					
		Summer Prices (May-October)			Winter Prices (November-April)		
		Off-Peak	Peak	Super Peak	Off-Peak	Peak	Super Peak
Standard Incandescent Lamp Fixture (Four 60 Watt bulbs)	1 hour	\$0.02	\$0.06	\$0.18	\$0.03	\$0.08	\$0.14
Two 34 Watt Fluorescent Tubes	1 hour	\$0.01	\$0.02	\$0.05	\$0.01	\$0.03	\$0.04
Four 13 Watt Compact Fluorescent Lamps	1 hour	\$0.01	\$0.02	\$0.05	\$0.01	\$0.02	\$0.03

Table 5. Cost of Operating Other Smaller Appliances

Common Major Appliances	Use Time	Cost Per Use					
		Summer Prices (May-October)			Winter Prices (November-April)		
		Off-Peak	Peak	Super Peak	Off-Peak	Peak	Super Peak
Hair Dryer	10 min.	\$0.03	\$0.07	\$0.20	\$0.03	\$0.09	\$0.15
Coffee Maker	Brewing	\$0.03	\$0.07	\$0.19	\$0.03	\$0.09	\$0.14
Iron	15 min.	\$0.01	\$0.04	\$0.11	\$0.02	\$0.05	\$0.08
Vacuum Cleaner	15 min.	\$0.02	\$0.05	\$0.15	\$0.02	\$0.07	\$0.11
Microwave Oven	5 min.	\$0.01	\$0.02	\$0.07	\$0.01	\$0.03	\$0.05



TIP

Need some help figuring out how to shift and reduce your use to lower your bill? Call us toll free at 1-800-411-SDGE (7343) or visit our Web site: www.sdge.com/eprp

To understand where you can make the biggest impacts by reducing or shifting your electricity use, check out *Tips for Saving Money* on pages 11 and 12.

Small Adjustments Lead to Real Savings

Using your pricing plan rates, we can show you a few examples of how even small adjustments can add up to savings for you. While these situations might not exactly fit the way you use electricity in your home, they show that you have many choices to shift or reduce your electricity use to take advantage of savings opportunities on your new pricing plan.

- **To save as much as \$100 a year, you could shift the time you do laundry.** If you typically do three loads of laundry each week on weekday afternoons, just shifting the time you do laundry to Off-Peak times can save you money. You may save as much as \$2 for every load of laundry you do not do on a Super Peak Day.
- **You could save about \$40 a year by replacing six standard incandescent light bulbs in your home with energy efficient compact fluorescent lamps (CFLs).** If these six lighting fixtures are on for between a half hour and up to three hours during the day, you can still save money even if you decide that you cannot reduce the time these lights are on (for example, if these lights are on timers or if you prefer to have your porch light on at night). While it is always a good idea to turn off unnecessary lights when you leave a room, you can save money by choosing more energy efficient light bulbs, even if you still need to use them for the same period of time.
- **You could save as much as \$50 per year, if you take steps to pre-cool your home and keep your air conditioning set at a constant moderate temperature.** If you typically keep your thermostat set at about 76 degrees in the summer, lowering your thermostat setting to 74 degrees for only two hours—before the Peak period when your rate is lower—can help you save on your electric bill.

By shifting some of your air conditioning use to Off-Peak times when your rate is lower, you are also pre-cooling your home so your air conditioner does not have to work as hard to maintain your 76 degree setting when it gets hotter outside. You will also be reducing the amount of time your air conditioner will cycle on your higher Peak rate to reach the same set point cooling temperature you have chosen.

If you would like to learn more about how to calculate your electricity use and costs, we offer you an example below. For examples using other appliances or questions, call us toll-free at 1-800-411-SDGE (7343).

Example: A Central Air Conditioner

How much can you save on your monthly electricity bill by raising the temperature setting a few degrees? Here's how to do the math.

Step 1: Find the Watts indicated on your air conditioner or in the owner's manual.

Air conditioning units typically use 1,250 Watts per ton. For a 3-ton air conditioner, for example, the wattage would be about 3,750 Watts.

Step 2: Multiply the wattage by the number of hours used each day.

For example, between the Peak hours of 2 p.m. and 7 p.m. on weekdays, this air conditioner typically cycles on and off, running for about 2 1/2 hours during that five hour Peak period each summer day.

$3,750 \text{ Watts} \times 2.5 \text{ hours} = 9,375 \text{ Watt hours}$

Step 3: Usage Level: Divide the total by 1000 to convert to kilowatt-hours.

$9,375 \text{ Watt hours} / 1000 = 9.375 \text{ kWh}$

Step 4: Cost Per Day: Multiply per day usage by your Peak rate.

$9.375 \text{ kWh} \times \$0.276/\text{kWh} = \$2.58 \text{ per day}$

How much could you save if you still ran your air conditioner the same number of hours, but raised your temperature setting three degrees?

Step 5: Savings Per Day:

You get roughly 5% savings each time you raise your thermostat setting one degree. If you decided to raise your set point temperature in the afternoons by three degrees, here's what you would save:

3 degrees = 15% savings

15% of your daily cost (\$2.58) = \$0.39

Step 6: Monthly Savings:

20 weekdays per month \times \$0.39 = **You can save about \$8 per month** by simply raising your thermostat temperature three degrees on weekday afternoons.



T I P

Air conditioning is the single largest household electric use on summer afternoons. If you use air conditioning, it is one of the first things you should consider shifting and reducing. Just raising your air conditioner's thermostat setting a few degrees can lower your bills. Need some tips on pre-cooling your home? Call us at 1-800-411-SDGE (7343) or visit our Web site: www.sdge.com/eprp



T I P

Your new electric bill will have your electricity use, measured in kWh, broken down so you can see how much is getting charged to each of your new rates. Shifting any of your electricity use from the Peak to the Off-Peak times can save you money on your bill.

New Electricity Use Information On Your Bill

On the next two pages, you can see a picture of what your new SDG&E bill will look like. Your new SDG&E bill will look very similar to your current bill but will offer you better information about when you use electricity. You will now be able to see your monthly energy use, in kWh, used during Off-Peak periods, Peak periods, and Super Peak periods. Each period has its own rate. Also, you will be charged the same surcharges, receive the same discounts and pay the same taxes that you would pay on your current rate. The rates shown are for illustration only. Your actual rate will appear on your bill.

Soon we will send you a sample of what your average monthly electric bills might look like using an estimate of your home's electricity use. Although your actual electricity use will be different, this sample will help you understand what to expect on your new pricing plan.

After you have participated in the Shift & Save Pricing Plan for one year, we will also send you a "shadow bill." This shadow bill will compare your monthly electric bills on the Shift & Save Pricing Plan with what your bills would have been on your old rate. If you would like to request a summary of your electric bills on your new pricing plan compared with your old rate at any time, call us at 1-800-411-SDGE (7343) and we will prepare a customized analysis for you.

Account Number Cycle
7890 123 456 09
EPRP CUSTOMER
8306 CENTURY PARK CT
Date Mailed: Jul 17, 2003

Questions? ¿Preguntas?
Please Call: Por Favor Llame
1-800-411-SDGE (7343)
Web Address: www.sdge.com
email: info@sdge.com



Page 1 of 2

TO BE SAFE, KEEP ALL ELECTRIC CORDS AWAY FROM HEAT SOURCES LIKE OVENS. FOR MORE SAFETY TIPS CALL 1-800-411-SDGE (7343).

ACCOUNT SUMMARY

Previous Account Balance.....	99.99
Payments Received.....	-99.99
Current Charges.....	76.41
TOTAL AMOUNT DUE.....	76.41

Please Pay \$76.41 by Aug 05, 2003

BILL PERIOD

Service	Meter	Begin	End	Total Consumption
GAS	#00123456	06-13-2002	07-16-2003	8 Therms
ELECTRIC	#09876543	06-13-2002	07-16-2003	446 kWh

Next Meter Read Date: 08-14-2003
Circuit: 0059 Currently not subject to curtailment.

ENERGY USAGE HISTORY

	This Month	Last Month	Percent Change	This Month Last Year	Percent Change
Therms/day	0.3	0.4	-25.0%	0.0	0.0%
kWh/day	14.4	13.4	+ 7.5%	0.0	0.0%
Billing Days	31	30	33		

Service Address: 8306 CENTURY PARK CT SD 4 BL

Account Number	Cycle	Date Mailed	Due Date	Please Pay This Amount
6943 246 264 7	10	Jul 17 2003	Aug 05 2003	\$76.41

Bill Becomes Past Due
After Above Date

Make Payment To

EPRP CUSTOMER
8306 CENTURY PARK CT
SAN DIEGO CA 92123-9999

San Diego Gas & Electric
PO Box 25111
Santa Ana, CA 92799-5111

7 2 50000694324626400002696170000269617

**Total
Electricity
Use**

PAGE 1


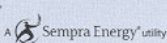
On the first page of your new electric bill, you will see your total electricity use, measured in kWh, and total electricity charges for the month. If you have any questions about how to read your new bill, call us toll-free at 1-800-411-SDGE (7343).

New Billing Information

New Rate Categories

PAGE 2

On Page 2 of your new electric bill, you will see your electricity use by rate period. You will see a breakdown of how much your electricity use cost at each rate over the course of the past month. Shifting any of your electric use from the Peak or Super Peak to Off-Peak times can save you money on your bill.

Account Number Cycle
7890 123 456 09
EPRP CUSTOMER
8306 CENTURY PARK CT
Date Mailed: Jul 01, 2003

Questions? ¿Preguntas?
Please Call: Por Favor Llame
1-800-411-SDGE (7343)
Web Address: www.sdge.com
email: info@sdge.com

Page 2 of 2

Service/Rate Meter #	Dates/ Meter Readings	Meter Constant	Therm Multiplier	Total Usage	Amount
GAS/GR #123456	06-13 684 07-16 692	1.000		8 Therms	\$7.48
				Baseline Allowance 18 Therms	
				Baseline Usage 8 Therms @ \$1.06875 8/31 Days	
				Baseline Usage 8 Therms @ \$.88875 23/31 Days	
				SDG&E's Average Cost Per Therm This Month \$.64000	
ELEC/DR #9076543	06-13 71309 07-16 71755	1		446 kWh	\$35.51
				Baseline Allowance 329 kWh	
				Baseline Usage 329 kWh @ \$.07294	
				Non-Baseline Usage 117 kWh @ \$.09840	
				DWR Bond Charge 446 kWh @ \$.0513	2.29
				Electric Energy Charge	25.82
				EPRP	
				Critical Peak - 12 kWh @ \$.66487	
				On Peak - 93 kWh @ \$.17217	
				Off Peak - 341 kWh @ \$.00487	
				Usage Adjustments	
				131% - 200% of Baseline - 18 kWh @ \$.00925	
				Total Electric Charges	63.62

The Total Electric Charges shown above include the following components. Please see definitions on back of bill.

Electric Energy	25.82
DWR Bond Charge	2.29
Transmission	3.34
Distribution.....	20.43
Public Purpose Programs.....	3.22
Nuclear Decommissioning.....	0.29
Trust Transfer Amount.....	4.19
Competition Transition Charge.....	4.03
Total Electric Costs.....	63.62

OTHER ACCOUNT CHARGES

San Diego Franchise Fee Differential 1.03% Gas 5.78% Electric	3.72
Franchise Fees on Electric Energy Supplied by Others	0.99
State Surcharge Tax 0.00020/kWh	0.09
State Regulatory Fee .00076/Therm .00012/kWh	0.06
Public Purpose Program - Gas .05949/Therm.....	0.48
TOTAL AMOUNT DUE	\$ 76.41

All customers are required to pay a Competition Transition Charge as part of the charges above, including those who choose an electric service provider other than SDG&E.

Your electric energy charges include charges for that portion of your energy usage provided by the Department of Water Resources (DWR). SDG&E collects charges for power provided by DWR as an agent of DWR. DWR is collecting 10.354 cents for each kWh it provides.

Date	Event
Beginning in July 2003	New Meter. A new advanced meter is installed at your home.
	Survey Mailed. A survey is sent to you to support this research project.
	\$25 Appreciation Payment. The \$25 first appreciation payment will be sent to you when the July survey is returned to us.
	System Test. We will call you one day in July to make sure we have the correct notification phone number. We will do this as a test of our system so we can be sure that you will get a notification call one day before we declare a Super Peak Day.
	Rates Change. The next time your meter is read, after your new digital meter is installed, you will be charged for electricity based on your new pricing plan.
	Web site Available. You can check out your utility's new pricing plan Web site at: www.sdge.com/eprp
	Sign-in Code Mailed. We will mail your personal sign-in code so you can view your electricity use information anytime on our secure Web site.
October 31, 2003	Second Appreciation Payment. If you remain on the pricing plan through October 31, 2003, you are eligible for the second appreciation payment of \$75.
April 30, 2004	Third Appreciation Payment. If you remain on the pricing plan through April 30, 2004, you are eligible for the final appreciation payment of \$75.
During this research project	Your Feedback. You may be contacted by phone so we can get your feedback on how your new pricing plan is working for you.
At the end of this research project	Project Completion. You will return to your current rate, or you may choose another available pricing plan.
Winter 2004-2005	Research Results. The research results will be made available to all participants.



TIP

To thank you for your support of this important research project, we offer you \$175 if you stay on your new pricing plan through April 2004.

More Information and Resources



T I P

We will be sending you regular information about your electricity use along with your regular bill from us. Keep track of that information in the pocket at the back of this Welcome Package so you can see how your electricity use changes month to month, when you shift and reduce your use, or when you don't.

There are three ways to get more information about your specific electricity use, the percentage of your use during Peak periods, and what you can do to lower your bills:

Your SDG&E Bill

Your bill will show you how much electricity you used in total for the previous billing period during each Shift & Save Pricing Plan rate period.

SDG&E's Web site

On SDG&E's Web site www.sdge.com/eprp you will be able to find more detail about your electricity use. You will be able to view your weekly electricity use on this Web site and be able to see your electricity use since your new pricing plan began on July 1. Also, you will get tips about reducing your electricity use and shifting your use away from Peak and Super Peak periods.

SDG&E's Customer Service Center

Call 1-800-411-SDGE (7343) if you would prefer to get information about your electricity use over the phone or by mail. Any information you can view on SDG&E's secure Web site will also be available to you if you call our toll free number. Please also call us at this number with general questions about the Shift & Save Pricing Plan and this research project.

Appendix 5

Residential Customer Characteristics Survey

This survey questionnaire is for the residential pilot participants.



HOME ENERGY SURVEY

Thank you for your help! Your appreciation payment of **\$25** will be sent to you when we receive your completed survey. Please note, the service address label must still be attached. The information you provide in this survey will help us plan for the electricity needs for you and all Californians.

Instructions

YOUR PARTICIPATION IS VERY IMPORTANT.

Please fill out this survey by filling in the oval completely. Information in (*italics*) is provided for clarification or to direct you to skip to another question based on your response.

Do your best to answer all of the questions. If you do not know the answer to one of the questions, please move on to the next one. If you would like help in completing the survey, you can call our toll free survey line at 1-800-331-8786 from 8:30 a.m. to 7 p.m., Monday through Friday.

When you are done, please return the survey in the enclosed postage-paid envelope to the address below:

Home Energy Survey Processing Center
492 Ninth Street, Suite 220
Oakland, CA 94607-4048

Thank you for participating!

Las respuestas de la comunidad hispana son muy importantes para las compañías proveedoras de energía en California. Si usted gusta su formulario en español, por favor llame al 1-800-331-8786.

Sponsored by:

Pacific Gas and Electric
San Diego Gas and Electric
Southern California Edison

Your Home & Lifestyle

A1 What type of building is your home, listed on the service address label on the front cover of this survey?

- ☐ Single-family detached house
☐ Townhouse, duplex, or row house
☐ Apartment or condominium (2 – 4 units)
☐ Apartment or condominium (5 or more units)
☐ Mobile home
☐ Other (*Describe*): _____

A2 Do you own or rent your home?

- ☐ Own / buying ☐ Rent / lease

A3 In approximately what year was your home built?

- ☐ Before 1960 ☐ 1980-1999
☐ 1960-1979 ☐ 2000 or later

A4 How many bedrooms are in your home?

- ☐ No bedrooms (*studio apartment*)
☐ 1 bedroom ☐ 3 ☐ 5
☐ 2 bedrooms ☐ 4 ☐ 6 or more

A5 How many square feet of **living space** are there in your home, including bathrooms, foyers and hallways?

(*Exclude garages, basements and unheated porches.*)

- ☐ Less than 750 ☐ 1251 – 1500 ☐ 2501 – 3000
☐ 751 – 1000 ☐ 1501 – 2000 ☐ 3001 – 4000
☐ 1001 – 1250 ☐ 2001 – 2500 ☐ Greater than 4000

☐ Or actual sq. ft. _____

A6 For each of the following age groups, how many people, including yourself, usually live in your home?

Age	Number of People Usually Living in this Home								
	None	1	2	3	4	5	6	7	Over 7
5 and under	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 – 18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19 – 64	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65 and over	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Space Cooling

CENTRAL AIR CONDITIONING/COOLING

- C1** Do you pay for central air conditioning for your home?
- ☐ Yes ☐ No, it is part of my rent/condo fee *(Go to C5.)*
☐ No, do not have central air conditioning *(Go to C5.)*

- C2** What type and how many central air conditioning/cooling system(s) do you have in your home?

	Number of Central Cooling Systems		
	1	2	3 or more
Central air conditioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Central evaporative cooler (swamp cooler)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat pump <i>(heats and cools)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- C3** What type of thermostat does your main cooling system(s) use?
- ☐ Programmable thermostat
(Digital units usually have a digital readout and buttons. Mechanical units usually have a clock or rotary timer and tabs, pins or levers.)
- ☐ Standard thermostat
(Allows you to set the temperature and turn the air conditioner on or off. You cannot set on/off times.)
- ☐ No thermostat
(Simple on/off control)
- C4** Which of the following statements best describes how you usually operate your central air conditioning system?
- ☐ Maintain the thermostat setting at constant temperature
- ☐ Raise the thermostat setting when no one is home
- ☐ Thermostat setting automatically changes at different times
- ☐ Manually turn on/off air conditioner as needed
- ☐ Rarely use the central air conditioning system

ROOM AIR CONDITIONING/COOLING (Window / Wall Units)

C5 Please tell us the characteristics of each room air conditioning/cooling unit below.

☐ No room air conditioning/cooling units (Go to H1.)

Type of Room AC/Cooling Unit	Unit 1	Unit 2	Unit 3
Window/wall air conditioner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Window/wall heat pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Window/wall evaporative cooler (swamp cooler)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

C6 Please indicate how often your room air conditioning unit(s) is/are turned on during the summer.
(Choose one answer for each time period.)

Time Period	Never	Rarely (1 day per week)	Sometimes (2-3 days per week)	Often (4 or more days per week)
Weekday Afternoons (2 p.m. –5 p.m.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weekday Evenings (5 p.m.–7 p.m.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All other times	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Space Heating

H1 Do you pay to heat your home?

- ☐ Yes ☐ No, it is part of my rent/condo fee (Go to L1.)
☐ No, do not have a heating system (Go to L1.)

H2 What type of heating system do you use to heat your home?

(If you use more than one heating system, mark the system that you use most as "Main Heating" and mark all other systems as "Additional Heating.")

	Main Heating (Mark only ONE BOX below)	Additional Heating (Mark ALL BOXES that apply)
NATURAL GAS		
Central forced-air furnace	<input type="checkbox"/>	<input type="checkbox"/>
Other natural gas system	<input type="checkbox"/>	<input type="checkbox"/>
ELECTRIC		
Resistance (baseboard/ceiling/floor/wall)	<input type="checkbox"/>	<input type="checkbox"/>
Central forced-air furnace (fan circulates hot air through ducts)	<input type="checkbox"/>	<input type="checkbox"/>
Central heat pump (heats and cools)	<input type="checkbox"/>	<input type="checkbox"/>
Through-the-wall heat pump (looks like a window/wall air conditioner, but also provides heat)	<input type="checkbox"/>	<input type="checkbox"/>
Portable heaters	<input type="checkbox"/>	<input type="checkbox"/>
Other electric system	<input type="checkbox"/>	<input type="checkbox"/>
OTHER FUEL (Describe): _____	<input type="checkbox"/>	<input type="checkbox"/>

H3 Which of the following statements best describes how you usually operate your main heating system?

- ☐ Maintain the thermostat setting at constant temperature
☐ Lower the thermostat setting at night or when no one is home
☐ Thermostat setting automatically changes at different times
☐ Manually turn on/off heater(s) as needed
☐ Only heat those rooms that are occupied
☐ Rarely use any heating system

Major Appliances

L1 Do you pay for heating water at your home?

- ☐ Yes ☐ No, it is part of my rent/condo fee (Go to M3.)
☐ No hot water heater (Go to M3.)

L2 What type of water heating systems do you use in your home?

	Main Water Heater (Mark ONE BOX in this column)	Additional Water Heater(s) (Mark ALL BOXES that apply)
Natural Gas	<input type="checkbox"/>	<input type="checkbox"/>
Electric	<input type="checkbox"/>	<input type="checkbox"/>
Other Describe _____	<input type="checkbox"/>	<input type="checkbox"/>

L3 What type of clothes dryer do you use in your home and pay for the energy to run?

(Do not include coin-operated machines in laundromats or machines in common areas of multifamily complexes.)

- ☐ I do not have a clothes dryer ☐ Electric dryer
☐ Natural gas dryer ☐ Bottled Gas (e.g., Propane)

L4 What types of cooking appliances are used in your home?

	Type of Fuel		
	Natural Gas	Electric	Other
Cooktop, stovetop or range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oven(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

L5 How many of the following appliances are used in your home?

	0	1	2	3 or more
Refrigerator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stand-alone freezer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dishwasher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Miscellaneous

M1 How many of each of the following appliances or equipment do you **use** in your home?

	None	1	2	3 or more
Television	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Printer, scanner, copier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Humidifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dehumidifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pond or water garden pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heated waterbed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aquarium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fans: portable or ceiling mount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric attic fan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whole-house fan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

M2 If you have at least one computer in your home, how often does anyone in your home perform any of the following activities on your computer?

	Never	Occasionally (about once a week)	Often (several times a week)
Send or receive e-mail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Browse the Internet for information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pay bills on-line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

M3 Do you (or someone else in your home) operate a business and/or work from your home?

☐ No

☐ Yes ➡ **M4** How many hours a week is someone working at home?

☐ 0 – 10 hours per week

☐ 11 – 30 hours per week

☐ More than 30 hours per week

M5 Do you use an electric well water pump to provide water for your home?

☐ No

☐ Yes ➡ **M6** How do you use your well water?

☐ Only for gardening and landscaping

☐ Only for household use

☐ Both household and gardening/landscape use

- M7** Do you have a spa or hot tub at your home?
(Do not include whirlpool tubs in your bathroom.)
- ☐ Yes, and **I pay for its energy use**
- ☐ Yes, but it is in a **common area** and **I do not pay for its energy use** *(Go to M9.)*
- ☐ No spa or hot tub *(Go to M9.)*

- M8** What fuel do you use to heat the spa or hot tub?
- ☐ Electricity ☐ Natural Gas ☐ Other

- M9** Do you have a swimming pool?
(Do not include a swimming pool that is in a central common area that is used by more than one home.)
- ☐ Yes, and **I pay for its energy use**
- ☐ Yes, but it is in a **common area** and **I do not pay for its energy use** *(Go to M11.)*
- ☐ No pool *(Go to M11.)*

- M10** How many **hours per day** do you operate your **swimming pool filter**?

Season	1 – 2	3 – 4	5 – 8	9 – 12	13 – 18	19 – 24
Summer (May-Oct.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Winter (Nov.-April)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- M11** Currently, how often are the following appliances used on weekdays, between 2 p.m. – 7 p.m.?

	Never	Rarely <i>(less than once a week)</i>	Occasionally <i>(several times a week)</i>	Daily
Television	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oven or range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dishwasher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laundry equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air conditioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pool filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spa filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Household Information

N1 What was the highest level of education completed by the head of household in your home?

- ☐ Elementary (*grades 1 – 8*) ☐ Some college/trade/vocational school
☐ Some high school (*grades 9 – 12*) ☐ College graduate
☐ High school graduate ☐ Postgraduate degree

N2 What is the primary language spoken in your home?

- ☐ English ☐ Spanish
☐ Asian (*e.g., Chinese, Tagalog, Japanese*) ☐ Other
☐ (describe) _____ ☐ (describe) _____

N3 Please check the range that best describes your household's **total annual income**.

- ☐ Less than \$25,000 ☐ \$50,000 – \$74,999 ☐ \$100,000 – \$149,999
☐ \$25,000 – \$49,999 ☐ \$75,000 – \$99,999 ☐ \$150,000 or more

N4 How would you rate the overall performance of your local electric utility?

- ☐ Poor ☐ Fair ☐ Good ☐ Excellent

N5 Please tell us whether you agree or disagree with the following statements.

I believe everyone should pay a little bit more to ensure a cleaner environment.

- ☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

The cost of a cleaner environment will mean fewer jobs and hurt the economy.

- ☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

Global warming is a threat I am seriously concerned about.

- ☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

Thank you very much for your cooperation and assistance!

Appendix 6

Survey Questionnaire Recoding Instructions

This survey questionnaire recoding instructions contain information on CRA's recoding of the Xenergy Home Energy Survey.

CRA Variable Redefinitions of Xenergy's Home Energy Survey

The following table defines changes CRA made to the database variables.

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
A1	A1_1-A1_6, Comment 1	1,0	SFU	Single Family Unit	1 if A1_1=1 or A1_5=1, 0 otherwise	Missing if sum(A1_1-A1_6)=0
			MFU	Multi Family Unit	1 if A1_2, A1_3, A1_4, A1_6 = 1, 0 otherwise	Missing if sum(A1_1-A1_6)=0
A2	A2_1-A2_2	1,0	OWN	Own Home	1 if A2_1=1, 0 otherwise	Missing if sum(A2_1-A2_2)=0
A3	A3_1-A3_4	1,0	NEWHO ME	Home built after 1979	1 if A3_3 or A3_4=1, 0 otherwise	Missing if sum(A3_1-A3_4)=0
A4	A4_1-A4_7	1,0	BED	Bedrooms	0 if A4_1=1, 1 if A4_2=1, 2 if A4_3=1, 3 if A4_4=1, 4 if A4_5=1, 5 if A4_6=1, 6 if A4_7=1	Missing if sum(A1_1-A4_7)=0
A5	A5_1-A5_10, Comment 2	1,0	SQFT	Square Feet	700 if A5_1=1, 875 if A5_2=1, 1125 if A5_3=1, 1375 if A5_4=1, 1750 if A5_5=1, 2250 if A5_6=1, 2750 if A5_7=1, 3500 if A5_8=1, 4500 if A5_9=1, or continuous	
A6	A6a_1-A6a_9, A6b_1-A6b_9,	1,0	PPHH	Total # People in Household	0-32	Missing if sum of (A6a_1-A6a_9 through A6d_1-A6d_9)=0

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
	A6c_1- A6c_9, A6d_1- A6d_9		CHILDREN	Total # People Under 19	0-16	Missing if sum of (A6a_1-A6a_9,A6b_1-A6b_9)=0
C1	C1_1- C1_3	1,0	CAC	Central Air Conditioning	1 if C1_1=1 and (C2a_1=1 or C2a_2=1 or C2a_3=1 or C2c_1=1 or C2c_2=1 or C2c_3=1) or C2 =0 for all, otherwise 0	Missing if sum(C1_1-C1_3)=0 and sum(C2a_1-C2a_3,C2b_1-C2b_3)=0
C2	C2a_1- C2a_3 C2b_1- C2b_3 C2c_1- C2c_3	1,0	EVAP	Central Evaporative Cooler	1 if C1_1=1 and (C2b_1=1 or C2b_2=1 or C2b_3=1), otherwise 0	None
C3	C3_1- C3_3	1,0	THERM	Thermostat	1 if C3_1=1 or C3_2=1, otherwise 0	Missing if C1_1=1 and sum(C3_1-C3_3)=0.
			PTHERM	Programmable Thermostat	1 if C3_1=1, otherwise 0	Missing if C1_1=1 and sum(C3_1-C3_3)=0.
C4	C4_1- C4_5	1,0	CAC_OP	Central Air Conditioning Operation	1 if C4_1=1, 2 if C4_2=1, 3 if C4_3=1, 4 if C4_4=1, 5 if C4_5=1 otherwise 0	Missing if C1_1=1 and sum(C4_1-C4_5)=0
C5	C5a_1, C5b_1- C5b_3, C5c_1- C5c_3	1,0	NRMAC	Number of room air conditioners	Sum of C5b_1-C5b_3 and C5c_1-C5c_3	Missing if sum(C5a_1,C5b_1,C5b_2,C5b_3,C5c_1,C5c_2,C5c_3)=0
			ROOMAC	Room air conditioner	1 if NRMAC >= 1, otherwise 0	Missing if sum(C5a_1,C5b_1,C5b_2,C5b_3,C5c_1,C5c_2,C5c_3)=0

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
			NREVAP	Number of room evaporative coolers	Sum of C5d_1-C5d_3	Missing if $\text{sum}(\text{C5a}_1, \text{C5b}_1, \text{C5b}_2, \text{C5b}_3, \text{C5c}_1, \text{C5c}_2, \text{C5c}_3)=0$
			EVAP	Evaporative coolers	1 if NREVAP \geq 1, otherwise 0	Missing if $\text{sum}(\text{C5a}_1, \text{C5b}_1, \text{C5b}_2, \text{C5b}_3, \text{C5c}_1, \text{C5c}_2, \text{C5c}_3)=0$
C6	C6a_1-C6a_4, C6b_1-C6b_4, C6c_1-C6c_4,	1,0	AC_USE_PEAK	Days per Week of AC Use in Weekdays 2-7 PM	Sum of days	Missing if $\text{sum}(\text{C5a}_1, \text{C6a}_1-\text{C6a}_4, \text{C6b}_1-\text{C6b}_4)=0$
			AC_USE_OFF	Days per Week of AC Use During Other Times	0 if C6c_1=1, 1 if C6c_2=1, 2.5 if C6c_3=1, 4 if C6c_4=1	Missing if $\text{sum}(\text{C5a}_1, \text{C6c}_1-\text{C6c}_4)=0$
H1	H1_1-H1_3	1,0	EMHT	Payment for Heating	1 if H1_1=1 and H2c-H2h=1 (for any single one), otherwise 0.	Missing if $\text{sum}(\text{H1}_1-\text{H1}_3)=0$
H2	H2a_1-H2a_2 ... H2i_1-H2i_2	1,0	EMHT	See above		
H3	H3_1-H3_6	1,0	HEAT	Heating System Operation	1 if H3_1=1, 2 if H3_2=1, 3 if H3_3=1, 4 if H3_4=1, 5 if H3_5=1, 6 if H3_6=1, otherwise 0	Missing if H1_1=1 and $\text{sum}(\text{H3}_1-\text{H3}_6)=0$

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
L1	L1_1-L1_3	1,0	EWHA	Electric Water Heating (Main)	1 if L1_1=1 and L2b_1=1	Missing if sum(L1_1-L1_3)=0
L2			None			
L3	L3_1-L3_4	1,0	EDRY	Electric Clothes Dryer	1 if L3_3=1, otherwise 0	Missing if sum(L3_1-L3_4)=0
L4	L4a_1-L4a_3, L4b_1-L4b_3	1,0	ECOOK	Electric Range	1 if L4a_2=1, otherwise 0	Missing if sum(L4a_1-L4a_3)=0
			EOVEN	Electric Oven	1 if L4b_2=1, otherwise 0	Missing if sum(L4b_1-L4b_3)=0
L5	L5a_1-L5a_4, L5b_1-L5b_4, L5c_1-L5c_4	1,0	NFRIG	Number of Refrigerators	0 if L5a_1=1, else is sum (L5a_2-L5a_4)	Missing if sum(L5a_1-L5a_4)=0
			NFRZ	Number of Stand-Alone Freezers	0 if L5b_1=1, else is sum (L5b_2-L5b_4)	Missing if sum(L5b_1-L5b_4)=0
			NDW	Number of dishwashers	0 if L5b_1=1, else is sum (L5b_2-L5b_4)	Missing if sum(L5c_1-L5c_4)=0
M1	M1a_1-M1a_4, M1b_1-M1b_4, ... M1k_1-M1k_4	1,0	NTV	Number of televisions	0 if M1a_1=1, else is sum (M1a_2-M1a_4)	Missing if sum(M1a_1-M1a_4)=0
			NCOMP	Number of computers	0 if M1b_1=1, else is sum (M1b_2-M1b_4)	Missing if sum(M1b_1-M1b_4)=0
			NPRINT	Number of printers/copiers/scanners	0 if M1c_1=1, else is sum (M1c_2-M1c_4)	Missing if sum(M1c_1-M1c_4)=0
			NHUM	Number of humidifiers	0 if M1d_1=1, else is sum (M1d_2-M1d_4)	Missing if sum(M1d_1-M1d_4)=0
			NDHUM	Number of dehumidifiers	0 if M1e_1=1, else is sum (M1e_2-M1e_4)	Missing if sum(M1e_1-M1e_4)=0

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
			NPMP	Number of water pumps	0 if M1f_1=1, else is sum (M1f_2-M1f_4)	Missing if sum(M1f_1-M1f_4)=0
			NWBED	Number of waterbeds	0 if M1g_1=1, else is sum (M1g_2-M1g_4)	Missing if sum(M1g_1-M1g_4)=0
			NAQ	Number of aquariums	0 if M1h_1=1, else is sum (M1h_2-M1h_4)	Missing if sum(M1h_1-M1h_4)=0
			NPFAN	Number of ceiling/portable fans	0 if M1i_1=1, else is sum (M1i_2-M1i_4)	Missing if sum(M1i_1-M1i_4)=0
			NAFAN	Number of electric attic fans	0 if M1j_1=1, else is sum (M1j_2-M1j_4)	Missing if sum(M1j_1-M1j_4)=0
			NHFAN	Number of whole-house fans	0 if M1k_1=1, else is sum (M1k_2-M1k_4)	Missing if sum(M1k_1-M1k_4)=0
M2	M2a_1-M2a_3, M2b_1-M2b_3, M2c_1-M2c_3	1,0	HCUSE	Household Computer Use	1 if (M2a_3=1 or M2b_3=1 or M2c_3=1), otherwise 0	Missing if sum(M2a_1-M2a_3, M2b_1-M2b_3, M2c_1-M2c_3)=0 and M1b_2=1 or M1b_3=1 or M1b_4=1.
M3	M3_1, M3_2	1,0	None			
M4	M4_1-M4_3	1,0	HBUS	Home business	1 if M4_3=1, otherwise 0	Missing if sum(M3_1, M3_2, M4_1-M4_3)=0
M5	M5_1-M5_2	1,0	WELL	Electric Well Water Pump	1 if M5_2=1, otherwise 0	Missing if sum(M5_1, M5_2)=0

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
M6	M6_1-M6_3	1,0	None			
M7	M7_1-M7_3	1,0	SPA	Spa or Hot tub	1 if M7_1=1, otherwise 0	Missing if sum(M7_1-M7_3)=0
M8	M8_1-M8_3	1,0	ESPA	Electric Spa or Hot tub	1 if M8_1=1, otherwise 0	Missing if sum(M8_1-M8_3)=0 and M7_1=1
M9	M9_1-M9_3	1,0	POOL	Pool	1 if M9_1=1, otherwise 0	Missing if sum(M9_1-M9_3)=0
M10	M10a_1-M10a_6, M10b_1-M10b_4	1,0	SPHRS	Summer Pool Filter Hours/Day	1.5 if M10a_1=1, 3.5 if M10a_2=1, 7 if M10a_3=1, 10.5 if M10a_4=1, 15.5 if M10a_5=1, 22 if M10a_6=1	Missing if sum(M10a_1-M10a_6)=0 and M9_1=1
			WPHRS	Winter Pool Filter Hours/Day	1.5 if M10b_1=1, 3.5 if M10b_2=1, 7 if M10b_3=1, 10.5 if M10b_4=1, 15.5 if M10b_5=1, 22 if M10b_6=1	Missing if sum(M10b_1-M10b_6)=0 and M9_1=1
M11	M11a_1-M11a_4, ... M11h_1-M11h_4,	1,0	HIGHUSER	High electricity user	1 if M11a_4=1 or M11b_4=1 or ...M11h_4=1, else 0.	Missing if sum(M11a_1-M11a_4,...M11h_1-M11h_4)=0
N1	N1_1-N1_6	1,0	COLLEGE	College graduate	1 if N1_5 or N1_6=1, otherwise 0	Missing if sum(N1_1-N1_6)=1

Question	Xenergy Variables	Values	CRA Variables	CRA Label	Values	Missing Observations
N2	N1_1- N1_4	1,0	NENG	No English	1 if N2_1=0, else 0	Missing if sum(N2_1-N2_4)=0
N3	N3_1- N3_6	1,0	INCOME	Annual income	15,000 if N3_1=1, 37,500 if N3_2=1, 62,500 if N3_3=1, 87,500 if N3_4=1, 125,000 if N3_5=1, 200,000 if N3_6=1	Missing if sum(N3_1-N3_6)=0
N4	N4_1- N4_4	1,0	SATISFACTION	Utility performance rating	1 if N4_1=1, 2 if N4_2=1, 3 if N4_3=1, 4 if N4_4=1, 0 otherwise	Missing if sum(N4_1-N4_4)=0
N5	N5a_1- N5a_4, N5b_1- N5b_4, N5c_1- N5c_4,	1,0	GREEN	Environmentally conscious energy consumer	1 if N5a_1=1, 0 otherwise	Missing if sum(N5a_1-N5a_4)=0

Appendix 7

Demand Analysis Prices

This appendix contains average and marginal prices by IOU, time period, tier, rate type, and rate level. Both CARE and non-CARE prices are included. Period 1 represents the prices that were in effect when most treatment customers were placed on the rate in early July. Period 2 reflects the August 1 price change for SCE and the September 1 price change for SDG&E. There was no price change for PG&E, and thus no period 2 prices.

Period 1: PGE (Zone 2) CPPF Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.51869	0.16394	0.04349	0.65880	0.21537	0.06480
	Treat/Control Ratio	6.2	2.0	0.5	5.8	1.9	0.6
	Percent Difference	523.7%	97.1%	-47.7%	476.4%	88.4%	-43.3%
	Absolute Difference	0.43553	0.08078	-0.03967	0.54450	0.10107	-0.04950
	CPPF-Low Summer	0.38117	0.15077	0.07157	0.48690	0.19890	0.09990
	Treat/Control Ratio	4.6	1.8	0.9	4.3	1.7	0.9
	Percent Difference	358.4%	81.3%	-13.9%	326.0%	74.0%	-12.6%
2	Absolute Difference	0.29801	0.06761	-0.01159	0.37260	0.08460	-0.01440
	CONTROL	0.08316	0.08316	0.08316	0.11430	0.11430	0.11430
	CPPF-High Summer	0.53116	0.17642	0.05596	0.67439	0.23096	0.08039
	Treat/Control Ratio	5.6	1.8	0.6	5.2	1.8	0.6
	Percent Difference	455.4%	84.5%	-41.5%	419.2%	77.8%	-38.1%
	Absolute Difference	0.43553	0.08078	-0.03967	0.54450	0.10107	-0.04950
	CPPF-Low Summer	0.39364	0.16324	0.08404	0.50249	0.21449	0.11549
3	Treat/Control Ratio	4.1	1.7	0.9	3.9	1.7	0.9
	Percent Difference	311.6%	70.7%	-12.1%	286.9%	65.1%	-11.1%
	Absolute Difference	0.29801	0.06761	-0.01159	0.37260	0.08460	-0.01440
	CONTROL	0.09563	0.09563	0.09563	0.12989	0.12989	0.12989
	CPPF-High Summer	0.53116	0.17642	0.05596	0.72563	0.28220	0.13163
	Treat/Control Ratio	5.6	1.8	0.6	4.0	1.6	0.7
	Percent Difference	455.4%	84.5%	-41.5%	300.6%	55.8%	-27.3%
4	Absolute Difference	0.43553	0.08078	-0.03967	0.54450	0.10107	-0.04950
	CPPF-Low Summer	0.39364	0.16324	0.08404	0.55373	0.26573	0.16673
	Treat/Control Ratio	4.1	1.7	0.9	3.1	1.5	0.9
	Percent Difference	311.6%	70.7%	-12.1%	205.7%	46.7%	-8.0%
	Absolute Difference	0.29801	0.06761	-0.01159	0.37260	0.08460	-0.01440
	CONTROL	0.09563	0.09563	0.09563	0.18113	0.18113	0.18113
	CPPF-High Summer	0.53116	0.17642	0.05596	0.76956	0.32613	0.17556
5	Treat/Control Ratio	5.6	1.8	0.6	3.4	1.4	0.8
	Percent Difference	455.4%	84.5%	-41.5%	241.9%	44.9%	-22.0%
	Absolute Difference	0.43553	0.08078	-0.03967	0.54450	0.10107	-0.04950
	CPPF-Low Summer	0.39364	0.16324	0.08404	0.59766	0.30966	0.21066
	Treat/Control Ratio	4.1	1.7	0.9	2.7	1.4	0.9
	Percent Difference	311.6%	70.7%	-12.1%	165.6%	37.6%	-6.4%
	Absolute Difference	0.29801	0.06761	-0.01159	0.37260	0.08460	-0.01440
5	CONTROL	0.09563	0.09563	0.09563	0.22506	0.22506	0.22506
	CPPF-High Summer	0.53116	0.17642	0.05596	0.78944	0.34601	0.19544
	Treat/Control Ratio	5.6	1.8	0.6	3.2	1.4	0.8
	Percent Difference	455.4%	84.5%	-41.5%	222.3%	41.3%	-20.2%
	Absolute Difference	0.43553	0.08078	-0.03967	0.54450	0.10107	-0.04950
	CPPF-Low Summer	0.39364	0.16324	0.08404	0.61754	0.32954	0.23054
	Treat/Control Ratio	4.1	1.7	0.9	2.5	1.3	0.9
5	Percent Difference	311.6%	70.7%	-12.1%	152.1%	34.5%	-5.9%
	Absolute Difference	0.29801	0.06761	-0.01159	0.37260	0.08460	-0.01440
	CONTROL	0.09563	0.09563	0.09563	0.24494	0.24494	0.24494

Period 1: SCE (Zone 2) CPPF Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.52206	0.16732	0.04686	0.66258	0.21915	0.06858
	Treat/Control Ratio	5.5	1.8	0.5	5.7	1.9	0.6
	Percent Difference	447.0%	75.3%	-50.9%	465.9%	87.2%	-41.4%
	Absolute Difference	0.42662	0.07188	-0.04858	0.54550	0.10207	-0.04850
	CPPF-Low Summer	0.37223	0.14644	0.07206	0.47529	0.19305	0.10008
	Treat/Control Ratio	3.9	1.5	0.8	4.1	1.6	0.9
	Percent Difference	290.0%	53.4%	-24.5%	306.0%	64.9%	-14.5%
2	Absolute Difference	0.27679	0.05100	-0.02338	0.35821	0.07597	-0.01700
	CONTROL	0.09544	0.09544	0.09544	0.11708	0.11708	0.11708
	CPPF-High Summer	0.53753	0.18279	0.06233	0.68191	0.23848	0.08791
	Treat/Control Ratio	4.8	1.6	0.6	5.0	1.7	0.6
	Percent Difference	377.3%	62.3%	-44.7%	399.9%	74.8%	-35.6%
	Absolute Difference	0.42491	0.07017	-0.05029	0.54550	0.10207	-0.04850
	CPPF-Low Summer	0.38770	0.16191	0.08753	0.49462	0.21238	0.11941
3	Treat/Control Ratio	3.4	1.4	0.8	3.6	1.6	0.9
	Percent Difference	244.3%	43.8%	-22.3%	262.6%	55.7%	-12.5%
	Absolute Difference	0.27508	0.04929	-0.02509	0.35821	0.07597	-0.01700
	CONTROL	0.11262	0.11262	0.11262	0.13641	0.13641	0.13641
	CPPF-High Summer	0.53753	0.18279	0.06233	0.72738	0.28395	0.13338
	Treat/Control Ratio	4.8	1.6	0.6	4.0	1.6	0.7
	Percent Difference	377.3%	62.3%	-44.7%	299.9%	56.1%	-26.7%
4	Absolute Difference	0.42491	0.07017	-0.05029	0.54550	0.10207	-0.04850
	CPPF-Low Summer	0.38770	0.16191	0.08753	0.54009	0.25785	0.16488
	Treat/Control Ratio	3.4	1.4	0.8	3.0	1.4	0.9
	Percent Difference	244.3%	43.8%	-22.3%	196.9%	41.8%	-9.3%
	Absolute Difference	0.27508	0.04929	-0.02509	0.35821	0.07597	-0.01700
	CONTROL	0.11262	0.11262	0.11262	0.18188	0.18188	0.18188
	CPPF-High Summer	0.53753	0.18279	0.06233	0.76679	0.32336	0.17279
5	Treat/Control Ratio	4.8	1.6	0.6	3.5	1.5	0.8
	Percent Difference	377.3%	62.3%	-44.7%	246.5%	46.1%	-21.9%
	Absolute Difference	0.42491	0.07017	-0.05029	0.54550	0.10207	-0.04850
	CPPF-Low Summer	0.38770	0.16191	0.08753	0.57950	0.29726	0.20429
	Treat/Control Ratio	3.4	1.4	0.8	2.6	1.3	0.9
	Percent Difference	244.3%	43.8%	-22.3%	161.9%	34.3%	-7.7%
	Absolute Difference	0.27508	0.04929	-0.02509	0.35821	0.07597	-0.01700
5	CONTROL	0.11262	0.11262	0.11262	0.22129	0.22129	0.22129
	CPPF-High Summer	0.53753	0.18279	0.06233	0.79027	0.34684	0.19627
	Treat/Control Ratio	4.8	1.6	0.6	3.2	1.4	0.8
	Percent Difference	377.3%	62.3%	-44.7%	222.9%	41.7%	-19.8%
	Absolute Difference	0.42491	0.07017	-0.05029	0.54550	0.10207	-0.04850
	CPPF-Low Summer	0.38770	0.16191	0.08753	0.60298	0.32074	0.22777
	Treat/Control Ratio	3.4	1.4	0.8	2.5	1.3	0.9
5	Percent Difference	244.3%	43.8%	-22.3%	146.3%	31.0%	-6.9%
	Absolute Difference	0.27508	0.04929	-0.02509	0.35821	0.07597	-0.01700
	CONTROL	0.11262	0.11262	0.11262	0.24477	0.24477	0.24477

Period 1: SDGE (Zone 2) CPPF Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.59398	0.19982	0.06598	0.74247	0.24977	0.08247
	Treat/Control Ratio	5.4	1.8	0.6	5.4	1.8	0.6
	Percent Difference	440.1%	81.7%	-40.0%	440.1%	81.7%	-40.0%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44118	0.18518	0.09718	0.55147	0.23147	0.12147
	Treat/Control Ratio	4.0	1.7	0.9	4.0	1.7	0.9
	Percent Difference	301.2%	68.4%	-11.6%	301.2%	68.4%	-11.6%
2	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.10998	0.10998	0.10998	0.13747	0.13747	0.13747
	CPPF-High Summer	0.61434	0.22018	0.08634	0.76793	0.27523	0.10793
	Treat/Control Ratio	4.7	1.7	0.7	4.7	1.7	0.7
	Percent Difference	371.3%	68.9%	-33.8%	371.3%	68.9%	-33.8%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.57693	0.25693	0.14693
3	Treat/Control Ratio	3.5	1.6	0.9	3.5	1.6	0.9
	Percent Difference	254.1%	57.7%	-9.8%	254.1%	57.7%	-9.8%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.16293	0.16293	0.16293
	CPPF-High Summer	0.61434	0.22018	0.08634	0.77718	0.28448	0.11718
	Treat/Control Ratio	4.7	1.7	0.7	4.5	1.7	0.7
	Percent Difference	371.3%	68.9%	-33.8%	351.4%	65.2%	-31.9%
4	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.58618	0.26618	0.15618
	Treat/Control Ratio	3.5	1.6	0.9	3.4	1.5	0.9
	Percent Difference	254.1%	57.7%	-9.8%	240.4%	54.6%	-9.3%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.17218	0.17218	0.17218
	CPPF-High Summer	0.61434	0.22018	0.08634	0.78625	0.29355	0.12625
5	Treat/Control Ratio	4.7	1.7	0.7	4.3	1.6	0.7
	Percent Difference	371.3%	68.9%	-33.8%	333.8%	62.0%	-30.3%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.59525	0.27525	0.16525
	Treat/Control Ratio	3.5	1.6	0.9	3.3	1.5	0.9
	Percent Difference	254.1%	57.7%	-9.8%	228.4%	51.9%	-8.8%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
5	CONTROL	0.13034	0.13034	0.13034	0.18125	0.18125	0.18125
	CPPF-High Summer	0.61434	0.22018	0.08634	0.80208	0.30938	0.14208
	Treat/Control Ratio	4.7	1.7	0.7	4.1	1.6	0.7
	Percent Difference	371.3%	68.9%	-33.8%	307.0%	57.0%	-27.9%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.61108	0.29108	0.18108
	Treat/Control Ratio	3.5	1.6	0.9	3.1	1.5	0.9
5	Percent Difference	254.1%	57.7%	-9.8%	210.1%	47.7%	-8.1%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.19708	0.19708	0.19708

Period 1: PGE (Zone 2) CPPF Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.56810	0.17394	0.04010	0.72057	0.22787	0.06057
	Treat/Control Ratio	6.8	2.1	0.5	6.3	2.0	0.5
	Percent Difference	583.1%	109.2%	-51.8%	530.4%	99.4%	-47.0%
	Absolute Difference	0.48494	0.09078	-0.04306	0.60626	0.11356	-0.05374
	CPPF-Low Summer	0.41335	0.15735	0.06935	0.52713	0.20713	0.09713
	Treat/Control Ratio	5.0	1.9	0.8	4.6	1.8	0.8
	Percent Difference	397.1%	89.2%	-16.6%	361.2%	81.2%	-15.0%
2	Absolute Difference	0.33019	0.07419	-0.01381	0.41283	0.09283	-0.01717
	CONTROL	0.08316	0.08316	0.08316	0.11430	0.11430	0.11430
	CPPF-High Summer	0.56974	0.17558	0.04174	0.72261	0.22991	0.06261
	Treat/Control Ratio	6.7	2.1	0.5	6.2	2.0	0.5
	Percent Difference	571.9%	107.1%	-50.8%	521.1%	97.6%	-46.2%
	Absolute Difference	0.48494	0.09078	-0.04306	0.60626	0.11356	-0.05374
	CPPF-Low Summer	0.41499	0.15899	0.07099	0.52917	0.20917	0.09917
3	Treat/Control Ratio	4.9	1.9	0.8	4.5	1.8	0.9
	Percent Difference	389.4%	87.5%	-16.3%	354.8%	79.8%	-14.8%
	Absolute Difference	0.33019	0.07419	-0.01381	0.41283	0.09283	-0.01717
	CONTROL	0.08480	0.08480	0.08480	0.11635	0.11635	0.11635
	CPPF-High Summer	0.57292	0.17876	0.04492	0.73765	0.24495	0.07765
	Treat/Control Ratio	6.5	2.0	0.5	5.6	1.9	0.6
	Percent Difference	550.3%	102.9%	-49.0%	460.8%	86.2%	-41.0%
4	Absolute Difference	0.48482	0.09066	-0.04318	0.60611	0.11341	-0.05389
	CPPF-Low Summer	0.41821	0.16221	0.07421	0.54427	0.22427	0.11427
	Treat/Control Ratio	4.7	1.8	0.8	4.1	1.7	0.9
	Percent Difference	374.7%	84.1%	-15.8%	313.8%	70.5%	-13.1%
	Absolute Difference	0.33011	0.07411	-0.01389	0.41273	0.09273	-0.01727
	CONTROL	0.08810	0.08810	0.08810	0.13154	0.13154	0.13154
	CPPF-High Summer	0.57559	0.18143	0.04759	0.76370	0.27100	0.10370
5	Treat/Control Ratio	6.3	2.0	0.5	4.9	1.7	0.7
	Percent Difference	534.9%	100.1%	-47.5%	385.1%	72.1%	-34.1%
	Absolute Difference	0.48493	0.09077	-0.04307	0.60626	0.11356	-0.05374
	CPPF-Low Summer	0.42084	0.16484	0.07684	0.57027	0.25027	0.14027
	Treat/Control Ratio	4.6	1.8	0.8	3.6	1.6	0.9
	Percent Difference	364.2%	81.8%	-15.2%	262.2%	59.0%	-10.9%
	Absolute Difference	0.33018	0.07418	-0.01382	0.41282	0.09282	-0.01718
5	CONTROL	0.09065	0.09065	0.09065	0.15745	0.15745	0.15745
	CPPF-High Summer	0.57745	0.18329	0.04945	0.79406	0.30136	0.13406
	Treat/Control Ratio	6.2	2.0	0.5	4.2	1.6	0.7
	Percent Difference	524.2%	98.1%	-46.5%	322.8%	60.5%	-28.6%
	Absolute Difference	0.48493	0.09077	-0.04307	0.60626	0.11356	-0.05374
	CPPF-Low Summer	0.42270	0.16670	0.07870	0.60062	0.28062	0.17062
	Treat/Control Ratio	4.6	1.8	0.9	3.2	1.5	0.9
5	Percent Difference	356.9%	80.2%	-14.9%	219.8%	49.4%	-9.1%
	Absolute Difference	0.33018	0.07418	-0.01382	0.41282	0.09282	-0.01718
	CONTROL	0.09252	0.09252	0.09252	0.18780	0.18780	0.18780

Period 1: SCE (Zone 2) CPPF Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.57206	0.17790	0.04406	0.72508	0.23238	0.06508
	Treat/Control Ratio	6.0	1.9	0.5	6.2	2.0	0.6
	Percent Difference	499.4%	86.4%	-53.8%	519.3%	98.5%	-44.4%
	Absolute Difference	0.47662	0.08246	-0.05138	0.60800	0.11530	-0.05200
	CPPF-Low Summer	0.40384	0.15296	0.07032	0.51480	0.20120	0.09790
	Treat/Control Ratio	4.2	1.6	0.7	4.4	1.7	0.8
	Percent Difference	323.1%	60.3%	-26.3%	339.7%	71.8%	-16.4%
2	Absolute Difference	0.30840	0.05752	-0.02512	0.39772	0.08412	-0.01918
	CONTROL	0.09544	0.09544	0.09544	0.11708	0.11708	0.11708
	CPPF-High Summer	0.57410	0.17994	0.04610	0.72763	0.23493	0.06763
	Treat/Control Ratio	5.9	1.8	0.5	6.1	2.0	0.6
	Percent Difference	487.6%	84.2%	-52.8%	508.3%	96.4%	-43.5%
	Absolute Difference	0.47640	0.08224	-0.05160	0.60800	0.11530	-0.05200
	CPPF-Low Summer	0.40588	0.15500	0.07236	0.51735	0.20375	0.10045
3	Treat/Control Ratio	4.2	1.6	0.7	4.3	1.7	0.8
	Percent Difference	315.4%	58.6%	-25.9%	332.5%	70.3%	-16.0%
	Absolute Difference	0.30818	0.05730	-0.02534	0.39772	0.08412	-0.01918
	CONTROL	0.09770	0.09770	0.09770	0.11963	0.11963	0.11963
	CPPF-High Summer	0.57751	0.18335	0.04951	0.74173	0.24903	0.08173
	Treat/Control Ratio	5.6	1.8	0.5	5.5	1.9	0.6
	Percent Difference	464.9%	79.3%	-51.6%	451.2%	85.0%	-39.3%
4	Absolute Difference	0.47527	0.08111	-0.05273	0.60715	0.11445	-0.05285
	CPPF-Low Summer	0.40954	0.15866	0.07602	0.53177	0.21817	0.11487
	Treat/Control Ratio	4.0	1.6	0.7	4.0	1.6	0.9
	Percent Difference	300.6%	55.2%	-25.6%	295.1%	62.1%	-14.6%
	Absolute Difference	0.30730	0.05642	-0.02622	0.39719	0.08359	-0.01971
	CONTROL	0.10224	0.10224	0.10224	0.13457	0.13457	0.13457
	CPPF-High Summer	0.58014	0.18598	0.05214	0.76526	0.27256	0.10526
5	Treat/Control Ratio	5.5	1.8	0.5	4.8	1.7	0.7
	Percent Difference	448.5%	75.8%	-50.7%	382.0%	71.7%	-33.7%
	Absolute Difference	0.47438	0.08022	-0.05362	0.60648	0.11378	-0.05352
	CPPF-Low Summer	0.41237	0.16149	0.07885	0.55555	0.24195	0.13865
	Treat/Control Ratio	3.9	1.5	0.7	3.5	1.5	0.9
	Percent Difference	289.9%	52.7%	-25.4%	249.9%	52.4%	-12.7%
	Absolute Difference	0.30661	0.05573	-0.02691	0.39677	0.08317	-0.02013
5	CONTROL	0.10576	0.10576	0.10576	0.15878	0.15878	0.15878
	CPPF-High Summer	0.58245	0.18829	0.05445	0.79463	0.30193	0.13463
	Treat/Control Ratio	5.4	1.7	0.5	4.2	1.6	0.7
	Percent Difference	437.7%	73.8%	-49.7%	322.3%	60.5%	-28.4%
	Absolute Difference	0.47412	0.07996	-0.05388	0.60648	0.11378	-0.05352
	CPPF-Low Summer	0.41468	0.16380	0.08116	0.58492	0.27132	0.16802
	Treat/Control Ratio	3.8	1.5	0.7	3.1	1.4	0.9
5	Percent Difference	282.8%	51.2%	-25.1%	210.9%	44.2%	-10.7%
	Absolute Difference	0.30635	0.05547	-0.02717	0.39677	0.08317	-0.02013
	CONTROL	0.10833	0.10833	0.10833	0.18815	0.18815	0.18815

Period 1: SDGE (Zone 2) CPPF Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.59398	0.19982	0.06598	0.74247	0.24977	0.08247
	Treat/Control Ratio	5.4	1.8	0.6	5.4	1.8	0.6
	Percent Difference	440.1%	81.7%	-40.0%	440.1%	81.7%	-40.0%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44118	0.18518	0.09718	0.55147	0.23147	0.12147
	Treat/Control Ratio	4.0	1.7	0.9	4.0	1.7	0.9
	Percent Difference	301.2%	68.4%	-11.6%	301.2%	68.4%	-11.6%
2	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.10998	0.10998	0.10998	0.13747	0.13747	0.13747
	CPPF-High Summer	0.59666	0.20250	0.06866	0.74582	0.25312	0.08582
	Treat/Control Ratio	5.3	1.8	0.6	5.3	1.8	0.6
	Percent Difference	429.6%	79.7%	-39.1%	429.6%	79.7%	-39.1%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44386	0.18786	0.09986	0.55482	0.23482	0.12482
3	Treat/Control Ratio	3.9	1.7	0.9	3.9	1.7	0.9
	Percent Difference	294.0%	66.8%	-11.4%	294.0%	66.8%	-11.4%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.11266	0.11266	0.11266	0.14082	0.14082	0.14082
	CPPF-High Summer	0.60204	0.20788	0.07404	0.75455	0.26185	0.09455
	Treat/Control Ratio	5.1	1.8	0.6	5.0	1.8	0.6
	Percent Difference	410.0%	76.1%	-37.3%	404.6%	75.1%	-36.8%
4	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44924	0.19324	0.10524	0.56355	0.24355	0.13355
	Treat/Control Ratio	3.8	1.6	0.9	3.8	1.6	0.9
	Percent Difference	280.6%	63.7%	-10.8%	276.8%	62.9%	-10.7%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.11804	0.11804	0.11804	0.14955	0.14955	0.14955
	CPPF-High Summer	0.60621	0.21205	0.07821	0.76410	0.27140	0.10410
5	Treat/Control Ratio	5.0	1.7	0.6	4.8	1.7	0.7
	Percent Difference	396.0%	73.5%	-36.0%	380.3%	70.6%	-34.6%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.45341	0.19741	0.10941	0.57310	0.25310	0.14310
	Treat/Control Ratio	3.7	1.6	0.9	3.6	1.6	0.9
	Percent Difference	271.0%	61.5%	-10.5%	260.2%	59.1%	-10.1%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
5	CONTROL	0.12221	0.12221	0.12221	0.15910	0.15910	0.15910
	CPPF-High Summer	0.60925	0.21509	0.08125	0.77643	0.28373	0.11643
	Treat/Control Ratio	4.9	1.7	0.6	4.5	1.7	0.7
	Percent Difference	386.4%	71.7%	-35.1%	352.9%	65.5%	-32.1%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.45645	0.20045	0.11245	0.58543	0.26543	0.15543
	Treat/Control Ratio	3.6	1.6	0.9	3.4	1.5	0.9
5	Percent Difference	264.4%	60.0%	-10.2%	241.5%	54.8%	-9.3%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.12525	0.12525	0.12525	0.17143	0.17143	0.17143

Period 1: PGE (Zone 2) TOU Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.17093	0.17093	0.05789	0.21510	0.21510	0.07380
	Treat/Control Ratio	2.1	2.1	0.7	1.9	1.9	0.6
	Percent Difference	105.5%	105.5%	-30.4%	88.2%	88.2%	-35.4%
	Absolute Difference	0.08777	0.08777	-0.02527	0.10080	0.10080	-0.04050
	TOU-Low Summer	0.14069	0.14069	0.07949	0.17730	0.17730	0.10080
	Treat/Control Ratio	1.7	1.7	1.0	1.6	1.6	0.9
	Percent Difference	69.2%	69.2%	-4.4%	55.1%	55.1%	-11.8%
2	Absolute Difference	0.05753	0.05753	-0.00367	0.06300	0.06300	-0.01350
	CONTROL	0.08316	0.08316	0.08316	0.11430	0.11430	0.11430
	TOU-High Summer	0.18340	0.18340	0.07036	0.23069	0.23069	0.08939
	Treat/Control Ratio	1.9	1.9	0.7	1.8	1.8	0.7
	Percent Difference	91.8%	91.8%	-26.4%	77.6%	77.6%	-31.2%
	Absolute Difference	0.08777	0.08777	-0.02527	0.10080	0.10080	-0.04050
	TOU-Low Summer	0.15316	0.15316	0.09196	0.19289	0.19289	0.11639
3	Treat/Control Ratio	1.6	1.6	1.0	1.5	1.5	0.9
	Percent Difference	60.2%	60.2%	-3.8%	48.5%	48.5%	-10.4%
	Absolute Difference	0.05753	0.05753	-0.00367	0.06300	0.06300	-0.01350
	CONTROL	0.09563	0.09563	0.09563	0.12989	0.12989	0.12989
	TOU-High Summer	0.18340	0.18340	0.07036	0.28193	0.28193	0.14063
	Treat/Control Ratio	1.9	1.9	0.7	1.6	1.6	0.8
	Percent Difference	91.8%	91.8%	-26.4%	55.7%	55.7%	-22.4%
4	Absolute Difference	0.08777	0.08777	-0.02527	0.10080	0.10080	-0.04050
	TOU-Low Summer	0.15316	0.15316	0.09196	0.24413	0.24413	0.16763
	Treat/Control Ratio	1.6	1.6	1.0	1.3	1.3	0.9
	Percent Difference	60.2%	60.2%	-3.8%	34.8%	34.8%	-7.5%
	Absolute Difference	0.05753	0.05753	-0.00367	0.06300	0.06300	-0.01350
	CONTROL	0.09563	0.09563	0.09563	0.18113	0.18113	0.18113
	TOU-High Summer	0.18340	0.18340	0.07036	0.32586	0.32586	0.18456
5	Treat/Control Ratio	1.9	1.9	0.7	1.4	1.4	0.8
	Percent Difference	91.8%	91.8%	-26.4%	44.8%	44.8%	-18.0%
	Absolute Difference	0.08777	0.08777	-0.02527	0.10080	0.10080	-0.04050
	TOU-Low Summer	0.15316	0.15316	0.09196	0.28806	0.28806	0.21156
	Treat/Control Ratio	1.6	1.6	1.0	1.3	1.3	0.9
	Percent Difference	60.2%	60.2%	-3.8%	28.0%	28.0%	-6.0%
	Absolute Difference	0.05753	0.05753	-0.00367	0.06300	0.06300	-0.01350
5	CONTROL	0.09563	0.09563	0.09563	0.22506	0.22506	0.22506
	TOU-High Summer	0.18340	0.18340	0.07036	0.34574	0.34574	0.20444
	Treat/Control Ratio	1.9	1.9	0.7	1.4	1.4	0.8
	Percent Difference	91.8%	91.8%	-26.4%	41.2%	41.2%	-16.5%
	Absolute Difference	0.08777	0.08777	-0.02527	0.10080	0.10080	-0.04050
	TOU-Low Summer	0.15316	0.15316	0.09196	0.30794	0.30794	0.23144
	Treat/Control Ratio	1.6	1.6	1.0	1.3	1.3	0.9
5	Percent Difference	60.2%	60.2%	-3.8%	25.7%	25.7%	-5.5%
	Absolute Difference	0.05753	0.05753	-0.00367	0.06300	0.06300	-0.01350
	CONTROL	0.09563	0.09563	0.09563	0.24494	0.24494	0.24494

Period 1: SCE (Zone 2) TOU Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.17430	0.17430	0.06126	0.22788	0.22788	0.08658
	Treat/Control Ratio	1.8	1.8	0.6	1.9	1.9	0.7
	Percent Difference	82.6%	82.6%	-35.8%	94.6%	94.6%	-26.1%
	Absolute Difference	0.07886	0.07886	-0.03418	0.11080	0.11080	-0.03050
	TOU-Low Summer	0.14406	0.14406	0.08294	0.19008	0.19008	0.11367
	Treat/Control Ratio	1.5	1.5	0.9	1.6	1.6	1.0
	Percent Difference	50.9%	50.9%	-13.1%	62.3%	62.3%	-2.9%
2	CONTROL	0.09544	0.09544	0.09544	0.11708	0.11708	0.11708
	TOU-High Summer	0.18977	0.18977	0.07673	0.24721	0.24721	0.10591
	Treat/Control Ratio	1.7	1.7	0.7	1.8	1.8	0.8
	Percent Difference	68.5%	68.5%	-31.9%	81.2%	81.2%	-22.4%
	Absolute Difference	0.07715	0.07715	-0.03589	0.11080	0.11080	-0.03050
	TOU-Low Summer	0.15953	0.15953	0.09840	0.20941	0.20941	0.13300
	Treat/Control Ratio	1.4	1.4	0.9	1.5	1.5	1.0
3	CONTROL	0.11262	0.11262	0.11262	0.13641	0.13641	0.13641
	TOU-High Summer	0.18977	0.18977	0.07673	0.29268	0.29268	0.15138
	Treat/Control Ratio	1.7	1.7	0.7	1.6	1.6	0.8
	Percent Difference	68.5%	68.5%	-31.9%	60.9%	60.9%	-16.8%
	Absolute Difference	0.07715	0.07715	-0.03589	0.11080	0.11080	-0.03050
	TOU-Low Summer	0.15953	0.15953	0.09840	0.25488	0.25488	0.17847
	Treat/Control Ratio	1.4	1.4	0.9	1.4	1.4	1.0
4	CONTROL	0.11262	0.11262	0.11262	0.18188	0.18188	0.18188
	TOU-High Summer	0.18977	0.18977	0.07673	0.33209	0.33209	0.19079
	Treat/Control Ratio	1.7	1.7	0.7	1.5	1.5	0.9
	Percent Difference	68.5%	68.5%	-31.9%	50.1%	50.1%	-13.8%
	Absolute Difference	0.07715	0.07715	-0.03589	0.11080	0.11080	-0.03050
	TOU-Low Summer	0.15953	0.15953	0.09840	0.29429	0.29429	0.21788
	Treat/Control Ratio	1.4	1.4	0.9	1.3	1.3	1.0
5	CONTROL	0.11262	0.11262	0.11262	0.22129	0.22129	0.22129
	TOU-High Summer	0.18977	0.18977	0.07673	0.35557	0.35557	0.21427
	Treat/Control Ratio	1.7	1.7	0.7	1.5	1.5	0.9
	Percent Difference	68.5%	68.5%	-31.9%	45.3%	45.3%	-12.5%
	Absolute Difference	0.07715	0.07715	-0.03589	0.11080	0.11080	-0.03050
	TOU-Low Summer	0.15953	0.15953	0.09840	0.31777	0.31777	0.24136
	Treat/Control Ratio	1.4	1.4	0.9	1.3	1.3	1.0
5	CONTROL	0.11262	0.11262	0.11262	0.24477	0.24477	0.24477
	Percent Difference	41.7%	41.7%	-12.6%	29.8%	29.8%	-1.4%
	Absolute Difference	0.04691	0.04691	-0.01422	0.07300	0.07300	-0.00341
	CONTROL	0.11262	0.11262	0.11262	0.24477	0.24477	0.24477

Period 1: PGE (Zone 2) TOU Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.18126	0.18126	0.05566	0.22801	0.22801	0.07101
	Treat/Control Ratio	2.2	2.2	0.7	2.0	2.0	0.6
	Percent Difference	118.0%	118.0%	-33.1%	99.5%	99.5%	-37.9%
	Absolute Difference	0.09810	0.09810	-0.02750	0.11371	0.11371	-0.04329
	TOU-Low Summer	0.14628	0.14628	0.07828	0.18429	0.18429	0.09929
	Treat/Control Ratio	1.8	1.8	0.9	1.6	1.6	0.9
	Percent Difference	75.9%	75.9%	-5.9%	61.2%	61.2%	-13.1%
2	Absolute Difference	0.06312	0.06312	-0.00488	0.06999	0.06999	-0.01501
	CONTROL	0.08316	0.08316	0.08316	0.11430	0.11430	0.11430
	TOU-High Summer	0.18290	0.18290	0.05730	0.23006	0.23006	0.07306
	Treat/Control Ratio	2.2	2.2	0.7	2.0	2.0	0.6
	Percent Difference	115.7%	115.7%	-32.4%	97.7%	97.7%	-37.2%
	Absolute Difference	0.09810	0.09810	-0.02750	0.11371	0.11371	-0.04329
	TOU-Low Summer	0.14792	0.14792	0.07992	0.18634	0.18634	0.10134
3	Treat/Control Ratio	1.7	1.7	0.9	1.6	1.6	0.9
	Percent Difference	74.4%	74.4%	-5.8%	60.2%	60.2%	-12.9%
	Absolute Difference	0.06312	0.06312	-0.00488	0.06999	0.06999	-0.01501
	CONTROL	0.08480	0.08480	0.08480	0.11635	0.11635	0.11635
	TOU-High Summer	0.18608	0.18608	0.06048	0.24511	0.24511	0.08811
	Treat/Control Ratio	2.1	2.1	0.7	1.9	1.9	0.7
	Percent Difference	111.2%	111.2%	-31.3%	86.3%	86.3%	-33.0%
4	Absolute Difference	0.09798	0.09798	-0.02762	0.11357	0.11357	-0.04343
	TOU-Low Summer	0.15115	0.15115	0.08315	0.20145	0.20145	0.11645
	Treat/Control Ratio	1.7	1.7	0.9	1.5	1.5	0.9
	Percent Difference	71.6%	71.6%	-5.6%	53.1%	53.1%	-11.5%
	Absolute Difference	0.06306	0.06306	-0.00494	0.06991	0.06991	-0.01509
	CONTROL	0.08810	0.08810	0.08810	0.13154	0.13154	0.13154
	TOU-High Summer	0.18875	0.18875	0.06315	0.27115	0.27115	0.11415
5	Treat/Control Ratio	2.1	2.1	0.7	1.7	1.7	0.7
	Percent Difference	108.2%	108.2%	-30.3%	72.2%	72.2%	-27.5%
	Absolute Difference	0.09809	0.09809	-0.02751	0.11370	0.11370	-0.04330
	TOU-Low Summer	0.15377	0.15377	0.08577	0.22743	0.22743	0.14243
	Treat/Control Ratio	1.7	1.7	0.9	1.4	1.4	0.9
	Percent Difference	69.6%	69.6%	-5.4%	44.5%	44.5%	-9.5%
	Absolute Difference	0.06312	0.06312	-0.00488	0.06999	0.06999	-0.01501
6	CONTROL	0.09065	0.09065	0.09065	0.15745	0.15745	0.15745
	TOU-High Summer	0.19061	0.19061	0.06501	0.30150	0.30150	0.14450
	Treat/Control Ratio	2.1	2.1	0.7	1.6	1.6	0.8
	Percent Difference	106.0%	106.0%	-29.7%	60.5%	60.5%	-23.1%
	Absolute Difference	0.09809	0.09809	-0.02751	0.11370	0.11370	-0.04330
	TOU-Low Summer	0.15563	0.15563	0.08763	0.25778	0.25778	0.17278
	Treat/Control Ratio	1.7	1.7	0.9	1.4	1.4	0.9
7	Percent Difference	68.2%	68.2%	-5.3%	37.3%	37.3%	-8.0%
	Absolute Difference	0.06312	0.06312	-0.00488	0.06999	0.06999	-0.01501
	CONTROL	0.09252	0.09252	0.09252	0.18780	0.18780	0.18780

Period 1: SCE (Zone 2) TOU Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.18492	0.18492	0.05932	0.24115	0.24115	0.08415
	Treat/Control Ratio	1.9	1.9	0.6	2.1	2.1	0.7
	Percent Difference	93.8%	93.8%	-37.8%	106.0%	106.0%	-28.1%
	Absolute Difference	0.08948	0.08948	-0.03612	0.12407	0.12407	-0.03293
	TOU-Low Summer	0.14980	0.14980	0.08188	0.19725	0.19725	0.11235
	Treat/Control Ratio	1.6	1.6	0.9	1.7	1.7	1.0
	Percent Difference	57.0%	57.0%	-14.2%	68.5%	68.5%	-4.0%
2	Absolute Difference	0.05436	0.05436	-0.01356	0.08017	0.08017	-0.00473
	CONTROL	0.09544	0.09544	0.09544	0.11708	0.11708	0.11708
	TOU-High Summer	0.18695	0.18695	0.06135	0.24369	0.24369	0.08669
	Treat/Control Ratio	1.9	1.9	0.6	2.0	2.0	0.7
	Percent Difference	91.4%	91.4%	-37.2%	103.7%	103.7%	-27.5%
	Absolute Difference	0.08925	0.08925	-0.03635	0.12407	0.12407	-0.03293
	TOU-Low Summer	0.15184	0.15184	0.08392	0.19980	0.19980	0.11490
3	Treat/Control Ratio	1.6	1.6	0.9	1.7	1.7	1.0
	Percent Difference	55.4%	55.4%	-14.1%	67.0%	67.0%	-4.0%
	Absolute Difference	0.05414	0.05414	-0.01378	0.08017	0.08017	-0.00473
	CONTROL	0.09770	0.09770	0.09770	0.11963	0.11963	0.11963
	TOU-High Summer	0.19069	0.19069	0.06509	0.25821	0.25821	0.10121
	Treat/Control Ratio	1.9	1.9	0.6	1.9	1.9	0.8
	Percent Difference	86.5%	86.5%	-36.3%	91.9%	91.9%	-24.8%
4	Absolute Difference	0.08845	0.08845	-0.03715	0.12364	0.12364	-0.03336
	TOU-Low Summer	0.15574	0.15574	0.08782	0.21451	0.21451	0.12961
	Treat/Control Ratio	1.5	1.5	0.9	1.6	1.6	1.0
	Percent Difference	52.3%	52.3%	-14.1%	59.4%	59.4%	-3.7%
	Absolute Difference	0.05350	0.05350	-0.01442	0.07994	0.07994	-0.00496
	CONTROL	0.10224	0.10224	0.10224	0.13457	0.13457	0.13457
	TOU-High Summer	0.19358	0.19358	0.06798	0.28205	0.28205	0.12505
5	Treat/Control Ratio	1.8	1.8	0.6	1.8	1.8	0.8
	Percent Difference	83.0%	83.0%	-35.7%	77.6%	77.6%	-21.2%
	Absolute Difference	0.08781	0.08781	-0.03779	0.12328	0.12328	-0.03372
	TOU-Low Summer	0.15875	0.15875	0.09083	0.23853	0.23853	0.15363
	Treat/Control Ratio	1.5	1.5	0.9	1.5	1.5	1.0
	Percent Difference	50.1%	50.1%	-14.1%	50.2%	50.2%	-3.2%
	Absolute Difference	0.05299	0.05299	-0.01493	0.07975	0.07975	-0.00515
6	CONTROL	0.10576	0.10576	0.10576	0.15878	0.15878	0.15878
	TOU-High Summer	0.19588	0.19588	0.07028	0.31143	0.31143	0.15443
	Treat/Control Ratio	1.8	1.8	0.6	1.7	1.7	0.8
	Percent Difference	80.8%	80.8%	-35.1%	65.5%	65.5%	-17.9%
	Absolute Difference	0.08756	0.08756	-0.03804	0.12328	0.12328	-0.03372
	TOU-Low Summer	0.16106	0.16106	0.09314	0.26790	0.26790	0.18300
	Treat/Control Ratio	1.5	1.5	0.9	1.4	1.4	1.0
7	Percent Difference	48.7%	48.7%	-14.0%	42.4%	42.4%	-2.7%
	Absolute Difference	0.05274	0.05274	-0.01518	0.07975	0.07975	-0.00515
	CONTROL	0.10833	0.10833	0.10833	0.18815	0.18815	0.18815

Period 2: SCE (Zone 2) CPPF Marginal Prices: by Tier, RateType, Care							
TIER	RATE TYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.57046	0.17630	0.04246	0.72308	0.23038	0.06308
	Treat/Control Ratio	6.7	2.1	0.5	6.1	2.0	0.5
	Percent Difference	568.8%	106.7%	-50.2%	512.4%	95.1%	-46.6%
	Absolute Difference	0.48516	0.09100	-0.04284	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.40398	0.15310	0.07046	0.51498	0.20138	0.09808
	Treat/Control Ratio	4.7	1.8	0.8	4.4	1.7	0.8
	Percent Difference	373.6%	79.5%	-17.4%	336.1%	70.5%	-16.9%
2	CONTROL	0.08530	0.08530	0.08530	0.11808	0.11808	0.11808
	CPPF-High Summer	0.58593	0.19177	0.05793	0.74241	0.24971	0.08241
	Treat/Control Ratio	5.8	1.9	0.6	5.4	1.8	0.6
	Percent Difference	482.1%	90.5%	-42.4%	440.3%	81.7%	-40.0%
	Absolute Difference	0.48528	0.09112	-0.04272	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.41945	0.16857	0.08593	0.53431	0.22071	0.11741
	Treat/Control Ratio	4.2	1.7	0.9	3.9	1.6	0.9
3	Percent Difference	316.7%	67.5%	-14.6%	288.8%	60.6%	-14.6%
	Absolute Difference	0.31880	0.06792	-0.01472	0.39690	0.08330	-0.02000
	CONTROL	0.10065	0.10065	0.10065	0.13741	0.13741	0.13741
	CPPF-High Summer	0.58593	0.19177	0.05793	0.75868	0.26598	0.09868
	Treat/Control Ratio	5.8	1.9	0.6	4.9	1.7	0.6
	Percent Difference	482.1%	90.5%	-42.4%	393.7%	73.1%	-35.8%
	Absolute Difference	0.48528	0.09112	-0.04272	0.60500	0.11230	-0.05500
4	CPPF-Low Summer	0.41945	0.16857	0.08593	0.55058	0.23698	0.13368
	Treat/Control Ratio	4.2	1.7	0.9	3.6	1.5	0.9
	Percent Difference	316.7%	67.5%	-14.6%	258.3%	54.2%	-13.0%
	Absolute Difference	0.31880	0.06792	-0.01472	0.39690	0.08330	-0.02000
	CONTROL	0.10065	0.10065	0.10065	0.15368	0.15368	0.15368
	CPPF-High Summer	0.58593	0.19177	0.05793	0.77626	0.28356	0.11626
	Treat/Control Ratio	5.8	1.9	0.6	4.5	1.7	0.7
5	Percent Difference	482.1%	90.5%	-42.4%	353.3%	65.6%	-32.1%
	Absolute Difference	0.48528	0.09112	-0.04272	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.41945	0.16857	0.08593	0.56816	0.25456	0.15126
	Treat/Control Ratio	4.2	1.7	0.9	3.3	1.5	0.9
	Percent Difference	316.7%	67.5%	-14.6%	231.8%	48.6%	-11.7%
	Absolute Difference	0.31880	0.06792	-0.01472	0.39690	0.08330	-0.02000
	CONTROL	0.10065	0.10065	0.10065	0.17126	0.17126	0.17126

Period 2: SDGE (Zone 2) CPPF Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.59398	0.19982	0.06598	0.74247	0.24977	0.08247
	Treat/Control Ratio	5.4	1.8	0.6	5.4	1.8	0.6
	Percent Difference	440.1%	81.7%	-40.0%	440.1%	81.7%	-40.0%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44118	0.18518	0.09718	0.55147	0.23147	0.12147
	Treat/Control Ratio	4.0	1.7	0.9	4.0	1.7	0.9
	Percent Difference	301.2%	68.4%	-11.6%	301.2%	68.4%	-11.6%
2	CONTROL	0.10998	0.10998	0.10998	0.13747	0.13747	0.13747
	CPPF-High Summer	0.61434	0.22018	0.08634	0.76793	0.27523	0.10793
	Treat/Control Ratio	4.7	1.7	0.7	4.7	1.7	0.7
	Percent Difference	371.3%	68.9%	-33.8%	371.3%	68.9%	-33.8%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.57693	0.25693	0.14693
	Treat/Control Ratio	3.5	1.6	0.9	3.5	1.6	0.9
3	Percent Difference	254.1%	57.7%	-9.8%	254.1%	57.7%	-9.8%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.16293	0.16293	0.16293
	CPPF-High Summer	0.61434	0.22018	0.08634	0.77718	0.28448	0.11718
	Treat/Control Ratio	4.7	1.7	0.7	4.5	1.7	0.7
	Percent Difference	371.3%	68.9%	-33.8%	351.4%	65.2%	-31.9%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
4	CPPF-Low Summer	0.46154	0.20554	0.11754	0.58618	0.26618	0.15618
	Treat/Control Ratio	3.5	1.6	0.9	3.4	1.5	0.9
	Percent Difference	254.1%	57.7%	-9.8%	240.4%	54.6%	-9.3%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.17218	0.17218	0.17218
	CPPF-High Summer	0.61434	0.22018	0.08634	0.78625	0.29355	0.12625
	Treat/Control Ratio	4.7	1.7	0.7	4.3	1.6	0.7
5	Percent Difference	371.3%	68.9%	-33.8%	333.8%	62.0%	-30.3%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.59525	0.27525	0.16525
	Treat/Control Ratio	3.5	1.6	0.9	3.3	1.5	0.9
	Percent Difference	254.1%	57.7%	-9.8%	228.4%	51.9%	-8.8%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.18125	0.18125	0.18125
5	CPPF-High Summer	0.61434	0.22018	0.08634	0.80208	0.30938	0.14208
	Treat/Control Ratio	4.7	1.7	0.7	4.1	1.6	0.7
	Percent Difference	371.3%	68.9%	-33.8%	307.0%	57.0%	-27.9%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.46154	0.20554	0.11754	0.61108	0.29108	0.18108
	Treat/Control Ratio	3.5	1.6	0.9	3.1	1.5	0.9
	Percent Difference	254.1%	57.7%	-9.8%	210.1%	47.7%	-8.1%
5	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600
	CONTROL	0.13034	0.13034	0.13034	0.19708	0.19708	0.19708

Period 2: SCE (Zone 2) CPPF Average Prices: by Tier, RateType, Care							
TIER	RATE TYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.57046	0.17630	0.04246	0.72308	0.23038	0.06308
	Treat/Control Ratio	6.7	2.1	0.5	6.1	2.0	0.5
	Percent Difference	568.8%	106.7%	-50.2%	512.4%	95.1%	-46.6%
	Absolute Difference	0.48516	0.09100	-0.04284	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.40398	0.15310	0.07046	0.51498	0.20138	0.09808
	Treat/Control Ratio	4.7	1.8	0.8	4.4	1.7	0.8
	Percent Difference	373.6%	79.5%	-17.4%	336.1%	70.5%	-16.9%
2	Absolute Difference	0.31868	0.06780	-0.01484	0.39690	0.08330	-0.02000
	CONTROL	0.08530	0.08530	0.08530	0.11808	0.11808	0.11808
	CPPF-High Summer	0.57250	0.17834	0.04450	0.72562	0.23292	0.06562
	Treat/Control Ratio	6.6	2.0	0.5	6.0	1.9	0.5
	Percent Difference	555.6%	104.2%	-49.0%	501.6%	93.1%	-45.6%
	Absolute Difference	0.48518	0.09102	-0.04282	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.40602	0.15514	0.07250	0.51752	0.20392	0.10062
3	Treat/Control Ratio	4.6	1.8	0.8	4.3	1.7	0.8
	Percent Difference	365.0%	77.7%	-17.0%	329.0%	69.1%	-16.6%
	Absolute Difference	0.31870	0.06782	-0.01482	0.39690	0.08330	-0.02000
	CONTROL	0.08732	0.08732	0.08732	0.12062	0.12062	0.12062
	CPPF-High Summer	0.57658	0.18242	0.04858	0.73425	0.24155	0.07425
	Treat/Control Ratio	6.3	2.0	0.5	5.7	1.9	0.6
	Percent Difference	531.0%	99.6%	-46.8%	468.1%	86.9%	-42.6%
4	Absolute Difference	0.48521	0.09105	-0.04279	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.41010	0.15922	0.07658	0.52615	0.21255	0.10925
	Treat/Control Ratio	4.5	1.7	0.8	4.1	1.6	0.8
	Percent Difference	348.8%	74.3%	-16.2%	307.1%	64.4%	-15.5%
	Absolute Difference	0.31873	0.06785	-0.01479	0.39690	0.08330	-0.02000
	CONTROL	0.09138	0.09138	0.09138	0.12925	0.12925	0.12925
	CPPF-High Summer	0.57975	0.18559	0.05175	0.74618	0.25348	0.08618
5	Treat/Control Ratio	6.1	2.0	0.5	5.3	1.8	0.6
	Percent Difference	513.4%	96.4%	-45.2%	428.5%	79.5%	-39.0%
	Absolute Difference	0.48523	0.09107	-0.04277	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.41327	0.16239	0.07975	0.53808	0.22448	0.12118
	Treat/Control Ratio	4.4	1.7	0.8	3.8	1.6	0.9
	Percent Difference	337.2%	71.8%	-15.6%	281.1%	59.0%	-14.2%
	Absolute Difference	0.31875	0.06787	-0.01477	0.39690	0.08330	-0.02000
5	CONTROL	0.09452	0.09452	0.09452	0.14118	0.14118	0.14118
	CPPF-High Summer	0.58206	0.18790	0.05406	0.75742	0.26472	0.09742
	Treat/Control Ratio	6.0	1.9	0.6	5.0	1.7	0.6
	Percent Difference	501.2%	94.1%	-44.2%	396.9%	73.7%	-36.1%
	Absolute Difference	0.48525	0.09109	-0.04275	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.41558	0.16470	0.08206	0.54932	0.23572	0.13242
	Treat/Control Ratio	4.3	1.7	0.8	3.6	1.5	0.9
5	Percent Difference	329.3%	70.1%	-15.2%	260.4%	54.7%	-13.1%
	Absolute Difference	0.31877	0.06789	-0.01475	0.39690	0.08330	-0.02000
	CONTROL	0.09681	0.09681	0.09681	0.15242	0.15242	0.15242

Period 2: SDGE (Zone 2) CPPF Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	CPPF-High Summer	0.59398	0.19982	0.06598	0.74247	0.24977	0.08247
	Treat/Control Ratio	5.4	1.8	0.6	5.4	1.8	0.6
	Percent Difference	440.1%	81.7%	-40.0%	440.1%	81.7%	-40.0%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44118	0.18518	0.09718	0.55147	0.23147	0.12147
	Treat/Control Ratio	4.0	1.7	0.9	4.0	1.7	0.9
	Percent Difference	301.2%	68.4%	-11.6%	301.2%	68.4%	-11.6%
2	CONTROL	0.10998	0.10998	0.10998	0.13747	0.13747	0.13747
	CPPF-High Summer	0.59666	0.20250	0.06866	0.74582	0.25312	0.08582
	Treat/Control Ratio	5.3	1.8	0.6	5.3	1.8	0.6
	Percent Difference	429.6%	79.7%	-39.1%	429.6%	79.7%	-39.1%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44386	0.18786	0.09986	0.55482	0.23482	0.12482
	Treat/Control Ratio	3.9	1.7	0.9	3.9	1.7	0.9
3	CONTROL	0.11266	0.11266	0.11266	0.14082	0.14082	0.14082
	CPPF-High Summer	0.60204	0.20788	0.07404	0.75455	0.26185	0.09455
	Treat/Control Ratio	5.1	1.8	0.6	5.0	1.8	0.6
	Percent Difference	410.0%	76.1%	-37.3%	404.6%	75.1%	-36.8%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.44924	0.19324	0.10524	0.56355	0.24355	0.13355
	Treat/Control Ratio	3.8	1.6	0.9	3.8	1.6	0.9
4	CONTROL	0.11804	0.11804	0.11804	0.14955	0.14955	0.14955
	CPPF-High Summer	0.60621	0.21205	0.07821	0.76410	0.27140	0.10410
	Treat/Control Ratio	5.0	1.7	0.6	4.8	1.7	0.7
	Percent Difference	396.0%	73.5%	-36.0%	380.3%	70.6%	-34.6%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.45341	0.19741	0.10941	0.57310	0.25310	0.14310
	Treat/Control Ratio	3.7	1.6	0.9	3.6	1.6	0.9
5	CONTROL	0.12221	0.12221	0.12221	0.15910	0.15910	0.15910
	CPPF-High Summer	0.60925	0.21509	0.08125	0.77643	0.28373	0.11643
	Treat/Control Ratio	4.9	1.7	0.6	4.5	1.7	0.7
	Percent Difference	386.4%	71.7%	-35.1%	352.9%	65.5%	-32.1%
	Absolute Difference	0.48400	0.08984	-0.04400	0.60500	0.11230	-0.05500
	CPPF-Low Summer	0.45645	0.20045	0.11245	0.58543	0.26543	0.15543
	Treat/Control Ratio	3.6	1.6	0.9	3.4	1.5	0.9
5	CONTROL	0.12525	0.12525	0.12525	0.17143	0.17143	0.17143
	Percent Difference	264.4%	60.0%	-10.2%	241.5%	54.8%	-9.3%
	Absolute Difference	0.33120	0.07520	-0.01280	0.41400	0.09400	-0.01600

Period 2: SCE (Zone 2) TOU Marginal Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.18406	0.18406	0.05846	0.24008	0.24008	0.08308
	Treat/Control Ratio	2.2	2.2	0.7	2.0	2.0	0.7
	Percent Difference	115.8%	115.8%	-31.5%	103.3%	103.3%	-29.6%
	Absolute Difference	0.09876	0.09876	-0.02684	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.15046	0.15046	0.08246	0.19808	0.19808	0.11308
	Treat/Control Ratio	1.8	1.8	1.0	1.7	1.7	1.0
	Percent Difference	76.4%	76.4%	-3.3%	67.8%	67.8%	-4.2%
2	CONTROL	0.08530	0.08530	0.08530	0.11808	0.11808	0.11808
	TOU-High Summer	0.19953	0.19953	0.07393	0.25941	0.25941	0.10241
	Treat/Control Ratio	2.0	2.0	0.7	1.9	1.9	0.7
	Percent Difference	98.2%	98.2%	-26.5%	88.8%	88.8%	-25.5%
	Absolute Difference	0.09888	0.09888	-0.02672	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.16593	0.16593	0.09793	0.21741	0.21741	0.13241
	Treat/Control Ratio	1.6	1.6	1.0	1.6	1.6	1.0
3	CONTROL	0.10065	0.10065	0.10065	0.13741	0.13741	0.13741
	TOU-High Summer	0.19953	0.19953	0.07393	0.27568	0.27568	0.11868
	Treat/Control Ratio	2.0	2.0	0.7	1.8	1.8	0.8
	Percent Difference	98.2%	98.2%	-26.5%	79.4%	79.4%	-22.8%
	Absolute Difference	0.09888	0.09888	-0.02672	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.16593	0.16593	0.09793	0.23368	0.23368	0.14868
	Treat/Control Ratio	1.6	1.6	1.0	1.5	1.5	1.0
4	CONTROL	0.10065	0.10065	0.10065	0.15368	0.15368	0.15368
	TOU-High Summer	0.19953	0.19953	0.07393	0.29326	0.29326	0.13626
	Treat/Control Ratio	2.0	2.0	0.7	1.7	1.7	0.8
	Percent Difference	98.2%	98.2%	-26.5%	71.2%	71.2%	-20.4%
	Absolute Difference	0.09888	0.09888	-0.02672	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.16593	0.16593	0.09793	0.25126	0.25126	0.16626
	Treat/Control Ratio	1.6	1.6	1.0	1.5	1.5	1.0
5	CONTROL	0.10065	0.10065	0.10065	0.17126	0.17126	0.17126
	TOU-High Summer	0.19953	0.19953	0.07393	0.29326	0.29326	0.13626
	Treat/Control Ratio	2.0	2.0	0.7	1.7	1.7	0.8
	Percent Difference	98.2%	98.2%	-26.5%	71.2%	71.2%	-20.4%
	Absolute Difference	0.09888	0.09888	-0.02672	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.16593	0.16593	0.09793	0.25126	0.25126	0.16626
	Treat/Control Ratio	1.6	1.6	1.0	1.5	1.5	1.0

Period 2: SCE (Zone 2) TOU Average Prices: by Tier, RateType, Care							
TIER	RATETYPE	Care Rates			Non-Care Rates		
		CPP	Peak	Off-Peak	CPP	Peak	Off-Peak
1	TOU-High Summer	0.18406	0.18406	0.05846	0.24008	0.24008	0.08308
	Treat/Control Ratio	2.2	2.2	0.7	2.0	2.0	0.7
	Percent Difference	115.8%	115.8%	-31.5%	103.3%	103.3%	-29.6%
	Absolute Difference	0.09876	0.09876	-0.02684	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.15046	0.15046	0.08246	0.19808	0.19808	0.11308
	Treat/Control Ratio	1.8	1.8	1.0	1.7	1.7	1.0
	Percent Difference	76.4%	76.4%	-3.3%	67.8%	67.8%	-4.2%
2	TOU-High Summer	0.18610	0.18610	0.06050	0.24262	0.24262	0.08562
	Treat/Control Ratio	2.1	2.1	0.7	2.0	2.0	0.7
	Percent Difference	113.1%	113.1%	-30.7%	101.1%	101.1%	-29.0%
	Absolute Difference	0.09878	0.09878	-0.02682	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.15250	0.15250	0.08450	0.20062	0.20062	0.11562
	Treat/Control Ratio	1.7	1.7	1.0	1.7	1.7	1.0
	Percent Difference	74.6%	74.6%	-3.2%	66.3%	66.3%	-4.1%
3	TOU-High Summer	0.19018	0.19018	0.06458	0.25125	0.25125	0.09425
	Treat/Control Ratio	2.1	2.1	0.7	1.9	1.9	0.7
	Percent Difference	108.1%	108.1%	-29.3%	94.4%	94.4%	-27.1%
	Absolute Difference	0.09881	0.09881	-0.02679	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.15658	0.15658	0.08858	0.20925	0.20925	0.12425
	Treat/Control Ratio	1.7	1.7	1.0	1.6	1.6	1.0
	Percent Difference	71.4%	71.4%	-3.1%	61.9%	61.9%	-3.9%
4	TOU-High Summer	0.19335	0.19335	0.06775	0.26318	0.26318	0.10618
	Treat/Control Ratio	2.0	2.0	0.7	1.9	1.9	0.8
	Percent Difference	104.6%	104.6%	-28.3%	86.4%	86.4%	-24.8%
	Absolute Difference	0.09883	0.09883	-0.02677	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.15975	0.15975	0.09175	0.22118	0.22118	0.13618
	Treat/Control Ratio	1.7	1.7	1.0	1.6	1.6	1.0
	Percent Difference	69.0%	69.0%	-2.9%	56.7%	56.7%	-3.5%
5	TOU-High Summer	0.19566	0.19566	0.07006	0.27442	0.27442	0.11742
	Treat/Control Ratio	2.0	2.0	0.7	1.8	1.8	0.8
	Percent Difference	102.1%	102.1%	-27.6%	80.0%	80.0%	-23.0%
	Absolute Difference	0.09885	0.09885	-0.02675	0.12200	0.12200	-0.03500
	TOU-Low Summer	0.16206	0.16206	0.09406	0.23242	0.23242	0.14742
	Treat/Control Ratio	1.7	1.7	1.0	1.5	1.5	1.0
	Percent Difference	67.4%	67.4%	-2.8%	52.5%	52.5%	-3.3%
5	CONTROL	0.09681	0.09681	0.09681	0.15242	0.15242	0.15242

Appendix 8

SCE Small Business Energy Use Survey

This survey questionnaire is for the C&I pilot participants.

SCE Small Business Energy Use Survey

Thank you for your help! Your appreciation payment will be sent to you when we receive your completed survey. The information you provide will help us plan for the electricity needs for you and all Californians. Please complete the survey for the service address listed below:

Please fill out
the survey for
the service
address listed
to the left.



Please fill out this survey by answering the questions as completely as possible. If you do not know the answer to one of the questions, please move on to the next one. If you would like help in completing the survey, you can call our toll free survey line at 1-866-IDEAS-2-U (1-866-433-2728) from 9:00 am to 6:00pm Monday through Friday.

When you are done, please return the survey in the enclosed postage-paid envelope to the address below:

Geltz Communications
133 N. Electric Drive, Suite 201
Pasadena, CA 91103

Thank you for participating!

Las respuestas de la comunidad hispana son muy importantes para las compañías proveedoras de energia en California. Si usted gusta su formulario en español, por favor llame al
1-877-823-8716

Q1. Please confirm the following information:

- A. Company contact: _____
- B. Contact title: _____
- C. Business name: _____
- D. Address 1: _____
- E. Address 2: _____
- F. City: _____ State: _____ Zip: _____
- G. Telephone 1: (____) ____ - _____ Telephone 2: (____) ____ - _____
- H. E-mail address: _____

Q2. What is the square footage of your business? _____

Q3. What percentage of your square footage is air conditioned? _____

Q4. Do you own or lease/rent your building? ☐ Own ☐ Lease/rent

Q5. Do you pay your electricity bill directly or are the electricity costs included in your rent?

☐ Pay our electricity bill directly. ☐ Electricity costs are included in the rent.

Q6. Do you pay for the air conditioning in the space that your business occupies or is it provided as part of the building services and paid for through the rent?

☐ Pay for the air conditioning directly.

☐ Air conditioning is provided as a service and we pay for it through the rent.

Q7. What are your hours of normal business operation during the week?

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Open							
Closed							

Q7a. About how many total days in the year are you closed for national holidays and/or inventory? _____

Q8. Do cleaning people come in after you are closed? _____ How often do they come in?
(indicate total hours per week) _____

Q9. At what temperature do you set your thermostat during the following periods?

	Summer	Winter
Normal operating hours		
Hours when business is closed		

Q10. Is this building controlled with an Energy Management System or time clock? _____

Are the lights turned on and off automatically or manually during the day? _____

Q11. How many people work at this location? _____

Q12. How would you describe your business?

Q13. How old is this building? _____

Q14. How many chillers and/or central air conditioning units do you have? _____

Q15. What kind of space does your business occupy?

☐ Standalone structure ☐ Part of a larger building, office complex or mall

Q16. How would you rate the overall performance of Southern California Edison?

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Q.17. Please tell us if whether you agree or disagree with the following statements:

I believe everyone should pay a little more to ensure a cleaner environment.

☐ Strongly agree ☐ Agree ☐ Disagree ☐ Strongly disagree

The cost of a cleaner environment will mean fewer jobs and hurt the economy.

☐ Strongly agree ☐ Agree ☐ Disagree ☐ Strongly disagree

Global warming is a threat I am seriously concerned about.

☐ Strongly agree ☐ Agree ☐ Disagree ☐ Strongly disagree

Thank you very much for your cooperation and assistance!

Sponsored by Southern California Edison

Appendix 9

Correlation Matrix for Selected Residential Survey Variables

This correlation matrix is for all customers in CELLID A01 through A08.

Correlation Matrix for Selected Residential Survey Variables											
Variable Name	HIGHUSER	MFUDUMMY	PPHH	BED	LN_INCOME	SPA	POOL	ECOOK	COLLEGE	ADU	CAC
Variable Description	High User	Multi-Family	Persons per Household	# of Bedrooms	Log of Income	Electric Spa	Swimming Pool	Electric Cooktop	College Education	Average Daily Usage	Central Air Conditioning
HIGHUSER	1.0000	-0.1717	0.1393	0.1734	0.0286	0.0480	0.0235	-0.0020	0.0059	0.2113	0.1936
MFUDUMMY	-0.1717	1.0000	-0.1945	-0.5738	-0.2984	-0.2297	-0.2208	0.0886	-0.1611	-0.4058	-0.1896
PPHH	0.1393	-0.1945	1.0000	0.3174	0.0354	0.0230	0.0561	-0.0585	-0.0561	0.2587	0.0624
BED	0.1734	-0.5738	0.3174	1.0000	0.4418	0.2610	0.2890	0.0309	0.2678	0.4773	0.2615
LN_INCOME	0.0286	-0.2984	0.0354	0.4418	1.0000	0.2657	0.2283	0.1339	0.4776	0.3021	0.1517
SPA	0.0480	-0.2297	0.0230	0.2610	0.2657	1.0000	0.4008	0.0304	0.1486	0.3146	0.1390
POOL	0.0235	-0.2208	0.0561	0.2890	0.2283	0.4008	1.0000	0.0678	0.1471	0.4144	0.1478
ECOOK	-0.0020	0.0886	-0.0585	0.0309	0.1339	0.0304	0.0678	1.0000	0.0988	0.0803	0.0654
COLLEGE	0.0059	-0.1611	-0.0561	0.2678	0.4776	0.1486	0.1471	0.0988	1.0000	0.1147	0.0784
ADU	0.2113	-0.4058	0.2587	0.4773	0.3021	0.3146	0.4144	0.0803	0.1147	1.0000	0.4310
CAC	0.1936	-0.1896	0.0624	0.2615	0.1517	0.1390	0.1478	0.0654	0.0784	0.4310	1.0000
MEAN	0.7611	0.2511	3.1808	2.9427	3.8970	0.1379	0.1371	0.4091	0.4514	22.4230	0.5450
STD	0.4266	0.4339	1.7948	1.0822	0.8191	0.3450	0.3441	0.4919	0.4979	14.2201	0.4983
N	900	920	907	907	840	899	890	902	906	912	877

Appendix 10

Correlation and Covariance Matrices of Regression Residuals for the CPP-F Demand Model

The Correlation matrix was used to determine if there was any correlation among the 15-observations of the Model 6 specification applied to the CPP-F demand model. It indicated that some correlation was present. The Covariance matrix was used to estimate the amount of bias that was probably present in the standard errors of the parameter estimates.

Correlation Matrix of Regression Residuals for the CPP-F Demand Model															
Variable	PRETREAT_Q1	PRETREAT_Q2	PRETREAT_Q3	PRETREAT_Q4	PRETREAT_Q5	CPP_Q1	CPP_Q2	CPP_Q3	CPP_Q4	CPP_Q5	NONCPP_Q1	NONCPP_Q2	NONCPP_Q3	NONCPP_Q4	NONCPP_Q5
PRETREAT_Q1	1.0000	0.2273	0.0292	0.0919	-0.0406	-0.1385	-0.1620	-0.1136	-0.0756	-0.2688	0.0307	0.0112	0.0239	-0.2595	-0.3132
PRETREAT_Q2	0.2273	1.0000	0.2781	0.1727	0.1160	-0.2461	-0.1916	-0.1743	-0.2207	-0.1969	-0.1645	-0.2439	-0.1809	-0.1761	-0.1488
PRETREAT_Q3	0.0292	0.2781	1.0000	0.3300	0.3111	-0.1954	-0.2532	-0.2951	-0.2884	-0.1771	-0.2469	-0.2560	-0.1790	-0.1786	-0.0609
PRETREAT_Q4	0.0919	0.1727	0.3300	1.0000	0.4683	-0.2677	-0.3212	-0.2875	-0.2479	-0.1352	-0.3541	-0.3122	-0.3189	-0.1617	0.0526
PRETREAT_Q5	-0.0406	0.1160	0.3111	0.4683	1.0000	-0.2498	-0.3764	-0.2594	-0.3164	-0.0158	-0.3512	-0.3210	-0.2819	-0.0897	0.1367
CPP_Q1	-0.1385	-0.2461	-0.1954	-0.2677	-0.2498	1.0000	0.1341	0.2270	0.0532	-0.2221	0.1868	0.1669	-0.1128	-0.2970	-0.3248
CPP_Q2	-0.1620	-0.1916	-0.2532	-0.3212	-0.3764	0.1341	1.0000	0.1138	0.1408	-0.1124	0.0727	0.0226	0.0068	-0.0483	-0.1945
CPP_Q3	-0.1136	-0.1743	-0.2951	-0.2875	-0.2594	0.2270	0.1138	1.0000	0.1114	-0.1725	0.1640	0.1417	-0.0530	-0.2346	-0.2469
CPP_Q4	-0.0756	-0.2207	-0.2884	-0.2479	-0.3164	0.0532	0.1408	0.1114	1.0000	-0.1033	-0.0031	-0.0239	0.0691	-0.1091	-0.1853
CPP_Q5	-0.2688	-0.1969	-0.1771	-0.1352	-0.0158	-0.2221	-0.1124	-0.1725	-0.1033	1.0000	-0.2738	-0.2361	-0.0671	0.4044	0.5425
NONCPP_Q1	0.0307	-0.1645	-0.2469	-0.3541	-0.3512	0.1868	0.0727	0.1640	-0.0031	-0.2738	1.0000	0.6317	0.3734	-0.1254	-0.3575
NONCPP_Q2	0.0112	-0.2439	-0.2560	-0.3122	-0.3210	0.1669	0.0226	0.1417	-0.0239	-0.2361	0.6317	1.0000	0.3809	-0.0413	-0.2556
NONCPP_Q3	0.0239	-0.1809	-0.1790	-0.3189	-0.2819	-0.1128	0.0068	-0.0530	0.0691	-0.0671	0.3734	0.3809	1.0000	0.2317	-0.1033
NONCPP_Q4	-0.2595	-0.1761	-0.1786	-0.1617	-0.0897	-0.2970	-0.0483	-0.2346	-0.1091	0.4044	-0.1254	-0.0413	0.2317	1.0000	0.6103
NONCPP_Q5	-0.3132	-0.1488	-0.0609	0.0526	0.1367	-0.3248	-0.1945	-0.2469	-0.1853	0.5425	-0.3575	-0.2556	-0.1033	0.6103	1.0000
MEAN	0.0081	-0.0013	-0.0031	0.0074	-0.0203	-0.0228	0.0115	0.0052	0.0089	-0.0110	0.0186	0.0126	0.0151	-0.0062	-0.0228
STD	0.2540	0.2690	0.2666	0.2773	0.2885	0.3267	0.3082	0.2661	0.3125	0.3064	0.1964	0.1750	0.1519	0.1718	0.2311
N	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601

Covariance Matrix of Regression Residuals for the CPP-F Demand Model															
Variable	PRETREAT_Q1	PRETREAT_Q2	PRETREAT_Q3	PRETREAT_Q4	PRETREAT_Q5	CPP_Q1	CPP_Q2	CPP_Q3	CPP_Q4	CPP_Q5	NONCPP_Q1	NONCPP_Q2	NONCPP_Q3	NONCPP_Q4	NONCPP_Q5
PRETREAT_Q1	0.0645	0.0155	0.0020	0.0065	-0.0030	-0.0115	-0.0127	-0.0077	-0.0060	-0.0209	0.0015	0.0005	0.0009	-0.0113	-0.0184
PRETREAT_Q2	0.0155	0.0724	0.0199	0.0129	0.0090	-0.0216	-0.0159	-0.0125	-0.0186	-0.0162	-0.0087	-0.0115	-0.0074	-0.0081	-0.0093
PRETREAT_Q3	0.0020	0.0199	0.0711	0.0244	0.0239	-0.0170	-0.0208	-0.0209	-0.0240	-0.0145	-0.0129	-0.0119	-0.0072	-0.0082	-0.0038
PRETREAT_Q4	0.0065	0.0129	0.0244	0.0769	0.0375	-0.0243	-0.0274	-0.0212	-0.0215	-0.0115	-0.0193	-0.0152	-0.0134	-0.0077	0.0034
PRETREAT_Q5	-0.0030	0.0090	0.0239	0.0375	0.0832	-0.0235	-0.0335	-0.0199	-0.0285	-0.0014	-0.0199	-0.0162	-0.0124	-0.0044	0.0091
CPP_Q1	-0.0115	-0.0216	-0.0170	-0.0243	-0.0235	0.1068	0.0135	0.0197	0.0054	-0.0222	0.0120	0.0095	-0.0056	-0.0167	-0.0245
CPP_Q2	-0.0127	-0.0159	-0.0208	-0.0274	-0.0335	0.0135	0.0950	0.0093	0.0136	-0.0106	0.0044	0.0012	0.0003	-0.0026	-0.0139
CPP_Q3	-0.0077	-0.0125	-0.0209	-0.0212	-0.0199	0.0197	0.0093	0.0708	0.0093	-0.0141	0.0086	0.0066	-0.0021	-0.0107	-0.0152
CPP_Q4	-0.0060	-0.0186	-0.0240	-0.0215	-0.0285	0.0054	0.0136	0.0093	0.0977	-0.0099	-0.0002	-0.0013	0.0033	-0.0059	-0.0134
CPP_Q5	-0.0209	-0.0162	-0.0145	-0.0115	-0.0014	-0.0222	-0.0106	-0.0141	-0.0099	0.0939	-0.0165	-0.0127	-0.0031	0.0213	0.0384
NONCPP_Q1	0.0015	-0.0087	-0.0129	-0.0193	-0.0199	0.0120	0.0044	0.0086	-0.0002	-0.0165	0.0386	0.0217	0.0111	-0.0042	-0.0162
NONCPP_Q2	0.0005	-0.0115	-0.0119	-0.0152	-0.0162	0.0095	0.0012	0.0066	-0.0013	-0.0127	0.0217	0.0306	0.0101	-0.0012	-0.0103
NONCPP_Q3	0.0009	-0.0074	-0.0072	-0.0134	-0.0124	-0.0056	0.0003	-0.0021	0.0033	-0.0031	0.0111	0.0101	0.0231	0.0060	-0.0036
NONCPP_Q4	-0.0113	-0.0081	-0.0082	-0.0077	-0.0044	-0.0167	-0.0026	-0.0107	-0.0059	0.0213	-0.0042	-0.0012	0.0060	0.0295	0.0242
NONCPP_Q5	-0.0184	-0.0093	-0.0038	0.0034	0.0091	-0.0245	-0.0139	-0.0152	-0.0134	0.0384	-0.0162	-0.0103	-0.0036	0.0242	0.0534

Appendix 11

Key Regression Equations

Demand model estimates for Residential CPP-F & CPP-V, and C&I CPP-V & TOU.

Residential Regression Analysis Results CPP-Fixed Rate (CPP-F)

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.7807	0.1037	7.5304
Log (Peak Price/Off-Peak Price)	-0.0205	0.0077	-2.6641
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0142	0.0008	18.0716
Log (Peak Price/Off-Peak Price)*(Central AC Dummy)	-0.0320	0.0096	-3.3200
Log (Peak Price/Off-Peak Price)*(Peak CDH per Hour minus Off-Peak CDH per Hour)	-0.0054	0.0007	-7.2497
Adjusted R-Squared	0.6166		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	-0.7637	0.0952	-8.0242
Log (Daily Average Price)	-0.0397	0.0148	-2.6887
Daily CDH per Hour	0.0435	0.0042	10.3512
Log (Daily Average Price)*(Central AC Dummy)	0.0637	0.0204	3.1167
Log (Daily Average Price)*(Daily CDH per Hour)	-0.0031	0.0021	-1.4645
Adjusted R-Squared	0.9015		

* Since the models have been estimated using the fixed effects procedure, each customer has a unique intercept term. These are too numerous to include in this table. The constant term listed here is for one of the customers.

Residential Regression Analysis Results

CPP-Fixed Rate (CPP-F) Weekend/Holiday

Off-Peak Use Equation*

Dependent Variable = Log (Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant**	-1.5082	0.1703	-8.8575
Log (Off-Peak Price)	0.0074	0.0295	0.2524
Off-Peak CDH per Hour	0.0661	0.0090	7.3291
Log (Off-Peak Price)*(Off-Peak CDH per Hour)	0.0052	0.0041	1.2689
Log (Off-Peak Price)*(Central AC Dummy)	-0.2268	0.0427	-5.3144
Adjusted R-Squared	0.8703		

* Off-Peak energy accounts for total daily energy on weekends and holidays.

** Since the models have been estimated using the fixed effects procedure, each customer has a unique intercept term. These are too numerous to include in this table. The constant term listed here is for one of the customers.

Residential Regression Analysis Results CPP-Variable Rate (CPP-V)

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.2456	0.1404	1.7492
Log (Peak Price/Off-Peak Price)	0.0633	0.0317	1.9945
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0408	0.0026	15.7495
Log (Peak Price/Off-Peak Price)*(CPP Day Dummy)	-0.1483	0.0232	-6.3988
Log (Peak Price/Off-Peak Price)*(Peak CDH per Hour minus Off-Peak CDH per Hour)	-0.0230	0.0028	-8.1703
Adjusted R-Squared	0.6263		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	-0.3055	0.1201	-2.5433
Log (Daily Average Price)	-0.0935	0.0362	-2.5805
Daily CDH per Hour	-0.0377	0.0490	-0.7696
Log (Daily Average Price)*(Daily CDH per Hour)	-0.0588	0.0257	-2.2860
Log (Daily Average Price)*(CPP Day Dummy)	-0.0200	0.0068	-2.9467
Adjusted R-Squared	0.8473		

* Since the models have been estimated using the fixed effects procedure, each customer has a unique intercept term. These are too numerous to include in this table. The constant term listed here is for one of the customers.

Commercial & Industrial Regression Analysis Results CPP-Variable Rate (CPP-V)

Less than 20 kW

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.7568	0.1489	5.0839
Log (Peak Price/Off-Peak Price)	-0.1495	0.0284	-5.2568
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0011	0.0055	0.2079
Adjusted R-Squared	0.8529		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	1.3193	0.1201	10.9861
Log (Daily Average Price)	-0.1185	0.0525	-2.2582
Daily CDH per Hour	0.0438	0.0047	9.3297
Adjusted R-Squared	0.9303		

Greater than 20 kW

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.3636	0.1107	3.2849
Log (Peak Price/Off-Peak Price)	-0.0528	0.0174	-3.0322
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0012	0.0033	0.3522
Adjusted R-Squared	0.8589		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	1.0303	0.1522	6.7692
Log (Daily Average Price)	-0.1624	0.0582	-2.7902
Daily CDH per Hour	0.0495	0.0044	11.3392
Adjusted R-Squared	0.9592		

* Since the models have been estimated using the fixed effects procedure, each customer has a unique intercept term. These are too numerous to include in this table. The constant term listed here is for one of the customers.

Commercial & Industrial Regression Analysis Results

Time-of-Use Rate (TOU)

Less than 20 kW

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.2024	0.1874	1.0803
Log (Peak Price/Off-Peak Price)	0.0171	0.0678	0.2519
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0213	0.0106	2.0010
Adjusted R-Squared	0.9686		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.2871	0.4075	0.7046
Log (Daily Average Price)	-0.1880	0.2313	-0.8127
Daily CDH per Hour	0.0260	0.0199	1.3090
Adjusted R-Squared	0.9070		

Greater than 20 kW

Peak/Off-Peak Ratio Equation

Dependent Variable = Log (Peak kWh per Hour/Off-Peak kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	0.2304	0.0999	2.3061
Log (Peak Price/Off-Peak Price)	0.0123	0.0460	0.2684
Peak CDH per Hour minus Off-Peak CDH per Hour	0.0172	0.0049	3.4746
Adjusted R-Squared	0.9317		

Daily Use Equation

Dependent Variable = Log (Daily kWh per Hour)	Parameter Estimate	Standard Error	T-Statistic
Constant*	2.7152	0.4738	5.7311
Log (Daily Average Price)	-0.1056	0.2571	-0.4105
Daily CDH per Hour	0.0358	0.0102	3.4921
Adjusted R-Squared	0.9684		

* Since the models have been estimated using the fixed effects procedure, each customer has a unique intercept term. These are too numerous to include in this table. The constant term listed here is for one of the customers.